HOW TO CREATE LATEX2e DOCUMENTS etc.
and how to use some of the relevant software on our Sol Unix server.

Richard Frost

Create a .tex file using markup commands as in the sample survey .tex file.

Most markup commands are obvious. The following notes explain how to layout text and computer programs:

1) If the program/math text does not contain any typesetting commands then you can simply enclose the code as follows

```
{\tt\obeylines\small
   \begin{verbatim}
     text
   \end{verbatim}
 }
```

the text will be typeset exactly as formatted with spaces and linebreaks

2) If the text contains typesetting commands, then you cannot use verbatim. Instead, you can use ~ and \\ for alignment and line spacing. For example:

```
{\tt\obeylines
~
~~~~text1
text2
text3
}
```

this will generate one line space, the first line text1 preceded by 4 spaces, followed by text2 and text3 on separate lines, followed by one line space.

\tt sets the font to a math font which appears to conform to ACM Conf. Proceeding requirements.

Next Change the first several lines of your .tex file

First of all, download a sample .tex file from the conference/journal site. Replace the first several lines of your own .tex file with the first few lines of the sample .tex file. Usually up to your “Introduction section”.

Note that the first line of your file will now be

\documentclass{whatever .cls file that you are using}

Now replace the sample entries “author name goes here” etc. with text for your paper. Edit in your abstract, and category info, etc. as required by the conference/journal.

Run latex and generate the .dvi file

First of all, download the .cls file from the conference/journal site and put it in the same directory as your .tex file.

Now type the following command in the Sol terminal shell opened in the directory containing your .tex and .cls files:

latex file.tex

(sometimes you have to do this two or three times so that latex can create the necessary .aux, .etc. files needed for the second and third passes required to create bibliographies etc.)

You may have to hit the return key a few times, and/or fix errors in your .tex file each time you run latex.

View the .dvi file

Before generating the .ps and .pdf files, you can check the .dvi output using the xdvi browser on Sol. Just type “xdvi” without quotes, then select your .dvi file and view it. If the typesetting requires changing, just make the modifications to your .tex file and reapply latex, and check with xdvi again.

Creating the .ps and .pdf files

In the terminal shell window, type:

“dvips -o file.ps file.dvi” without quotes to create the .ps file

then type:

“ps2pdf file.ps file.pdf” to generate the pdf file which you can view by clicking on it in the directory window.

BIBLIOGRAPHY

Create a file called refs.bib with your refs in a format similar to the sample survey .bib file.

follow latex instructions (to be made available later)
\nocite{*} - causes all refs to be formatted and put into a .bbl file

The above covers the easy part of Latex. I have not discussed mathematical equations, proofs, tables, or figures. There are several books on these aspects of Latex.