Instructions for Using ZooM

ZooM is a tool which translates .muz files created by the AMuZed application into Z

1 How to use ZooM

Double click on the ZooM icon, this will bring up a window where you can select the .muz file you wish to translate or navigate to the correct folder to find the file. Once you have found the file, click on it to select it and then click Open (or you can just double click on the .muz file). You will then be presented with a window which lists your chart names, at this point you can edit the names if you wish. This can be beneficial if you have, for example, long chart names, as in the translation the chart name is used as a prefix to the chart states. The application will create the translated files and then quit.

2 What does ZooM output?

ZooM translates the .muz file into a number of .tex files. In the simplest case (*i.e.* for a single sequential chart) three files will be created, a declarations file, a chart file and a composite file.
For example, if your .muz file is called mychart.muz, then the following files will be created :
mychartdeclarations.tex
mychart.tex
mychartSystem.tex
Note: If you have renamed your chart in the opening window to aChart, then the files created will be :
mychartdeclarations.tex
aChart.tex
mychartSystem.tex
i.e. The name of the main System file remains unchanged.

If you translate a chart containing multiple composed and/or decomposed charts ZooM creates a .tex file for each of the additional sequential charts.

3 How can I view the Z translation?

Once you have performed the translation you only need to tex the composite file (*i.e.* the mychartSystem.tex file). Open the file in emacs and run tex, this will produce a .dvi file which contains the printable Z specification. You can also use the System.tex file with the Z proof application z-eves.

4 Why does the LaTex contain file names which are different from the original chart?

In order for the command macros in LaTex to work properly some things may need to be changed. For example any digits will be replaced by their text representation and any spaces will be replaced by the letters SPC. This only affects the unTeXed file, when you TeX the file the Z representation will contain your original names (the exception being that spaces will be replaced by underscores.) For example, if you have a state in your chart called State 1 it will appear on the left hand side of the LaTex new command as StateSPCOne, but will TeX to State_1.

Note: You should avoid putting digits at the start of your chart names as this will cause problems if you try and use your translation with z-eves, so chart1 is acceptable but 1chart is not.