

Tutorial session 2 examples

1. Initial set up

1. Bring up an xterm window (or appropriate machine specific form such as command tool on SUNs) and move into it.
2. Move to your home directory [`cd ~`] and check for directory /adas [`ls`]. If it is not present create it. Tim has a script which will create most of the sub-directories you need.
3. Move into /adas [`cd adas`]. Check that there is a default directory /defaults and a directory /pass. If not create them [`mkdir defaults`] [`mkdir pass`]. For a later tutorial also create directories /arch601 [`mkdir arch601`] and then sub-directories of it /abundance, /intensity and /kernel [`cd arch601; mkdir abundance; mkdir intensity; mkdir kernel`].
4. Move to the central adas file space [`cd ../adas`]. Look at the directories at this level [`ls`]. You should see the directory /docs. Move into it and look again [`cd docs; ls`]. You should see the various sub-directories including /bulletin and /manual. Move into the bulletins and look again [`cd bulletin; ls`]. You should see all the bulletins including *nov18-95.ps*.
5. Bring up a viewer for the postscript files to look at the *nov18-95.ps* bulletin. [For example on DEC alpha machines type `dxvdoc &`; the CDA viewer pops up; click on the button *PS* under *FILE FORMAT*; double click on directory names including '.' until you find the bulletins; double click on *nov18-95.ps* and you should see the bulletin first page]
6. Exit from the postscript viewer. [For example on DEC alpha machines, exit CDA viewer by clicking on *FILE* at the top left and then *EXIT* on the drop down menu]
7. Return to your home directory again and move into the subdirectory /adas/pass.
8. Start up ADAS [`adas`]. The main ADAS menu pops up. Click on the fifth (diamond) button. The sub-menu for series5 programs pops up.

2. ADAS502 Test Case

1. Click with the mouse on the second button of ADAS502. The Input window for ADAS502 pops up.
2. Click on *Central Data*, the data root to data class ADF07 should appear dimmed in the window alongside. Click on the directory name *ionelec* in the file list window. *ionelec* appears above in the selection window. Click on *ionelec_szd#be.dat*. It appears in the selection window.
3. Click the *Browse comments* button. Information of what is in the file *ionelec_szd#be.dat* is displayed. Click *Done* to restore the Input window. Click *Done* and the ADAS502 Processing window appears.
4. Click on the *Fit polynomial* button, then type [`5 {return}`] in the adjacent active editable box. Click on an ionisation transition row in the transition list window. It appears in the selection window above.
5. Click on the *Select Temperatures for Output File* button. Click on the *Default Temperatures Values* button. If a warning pop up appears, click *Confirm* on it. A set of temperatures appears in the Output temperatures column.
6. Click on the *Done* button to proceed to the Output options window.
7. Click on the button for *Graphical Output*. Then click *Done*. The graph pops up. Click *Done* to restore the Output options window [you may need to move the mouse pointer off the graph to show the buttons]. Click on the *Exit to Menu* icon at the bottom left corner to restore the ADAS5 series menu.

3. Example 3

Investigate the main ADAS user manual under `../adas/docs/manual`. You will need to use the postscript viewer again. Also have a look in the data base itself. Move to `../adas/adas`. Note all the data classes. Move down into `/adf07` and then `/ionelec`. If you "print" (`cat` or `more`) the *ionelec_szd#be.dat* file that you interrogated with ADAS502 you will see its structure. Look at the appendices of the blue manual. You will see the description of ADF07 given precisely there.

4. Example 4

Repeat the previous test case as far as the Processing options window. Note that your previous case should have been remembered. Now try to edit in your own temperatures for output. Click on the Edit Table button. You will need to find out how to use Table Editor. Some notes on Table Editor and Graph Editor are given at the end of this Tutorial manual. In the first chapter of each of the blue IDL-ADAS special manuals, these notes on Table Editor and Graph Editor are repeated.