

pplane8 Phase Portraits

- The routine `pplane8` is already loaded on all ITaP machines as standard software. (If you are using your own copy of MATLAB you may need to download `pplane8` from <http://math.rice.edu/~dfield>)

- You may also access MATLAB through the *Software Remote*:

<http://goremote.ics.purdue.edu>

- To access `pplane8`, at a MATLAB prompt type: `pplane8`
- A popup window will appear similar to that for `dfield8` (see below).
- Correctly enter your system of differential equations and the range of values of the independent and dependent variables. Hit **Proceed** and a graphics window will appear with the direction field of your system of differential equations. Click the mouse at any point and the corresponding trajectory will be plotted.
- There are several options available in the graphics display window: printing, keyboard input of initial conditions, inserting text, erasing solutions, zoom, etc.
- You may have up to six (6) parameters to quickly vary your system of differential equations.
- `pplane8` is very similar to `dfield8` in its syntax and use.

