The purpose of this document is to record what was done to enable system globals in PST to use the structured global variable g and other 'clean up' actions taken.

Each paragraph describes the required changes to the PST file.

Initial globals:

```
%% Original globals block condensed into g...
    %% system variables - 13
    global  basmva basrad syn_ref mach_ref sys_freq
    global  bus_v bus_ang psi_re psi_im cur_re cur_im bus_int
    global  lmon_con % lmon_con not used in non-linear sim...
    global theta % moved from g.mac as it is a system variable
```

Modified globals:

```
global g
```

Non-Linear files

exc_st3

- alteration of system globals to use `g.sys` structure

handleNewGlobals

- addition of `lmon_con` to global `g.sys` - currently unused in non-linear simulation.

i_simu

- alteration of system globals to use `g.sys` structure

livePlot   (an optionally run script - possibly user defined...)

- alteration of system globals to use `g.sys` structure

loadflow

- alteration of system globals to use `g.sys` structure

- Creates other globals that may or may not be used elsewhere (i.e. don't need to be global)

mac_sub

- alteration of system globals to use `g.sys` structure

mac_sub_ORIG

- Copy of mac_sub with new `g.sys` variables

nc_load

- alteration of system globals to use `g.sys` structure

pwrmod_indx

- alteration of system globals to use `g.sys` structure

red_ybus

- alteration of system globals to use `g.sys` structure

rlmod

- alteration of system globals to use `g.sys` structure

s_simu_Batch

- alteration of system globals to use `g.sys` structure

ybus

- alteration of system globals to use `g.sys` structure

y_sparse

- alteration of system globals to use `g.sys` structure

y_switch   - ran as a script...

- alteration of system globals to use `g.sys` structure

Linear Specific files

Files ran as a script:

- ns_file
- p_m_file
- p_file
- p_cont

xxx

- alteration of system globals to use `g.sys` structure