

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

p_file

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

svm_mgen_Batch

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