

The purpose of this document is to record what was done to enable TCSC 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...
%% tcsc variables - 10
global  tcsc_con n_tcsc tcsvf_idx tcsct_idx
global  B_tcsc dB_tcsc
global  tcsc_sig tcsc_dsig
global  n_tcscud dtcscud_idx %user defined damping controls
% previous non-globals added as they seem to relavant
global xtcsc_dc dxtcsc_dc td_sig tcscf_idx
global tcsc_dc
```

Modified globals:

```
global g
```

Non-Linear files

handleNewGlobals

- Addition of `tcsc_con` to global `g`

nc_load

- Alteration of system globals to use `g.tcsc` structure

s_simu_Batch

- Alteration of system globals to use `g.tcsc` structure

tcsc

- Alteration of system globals to use `g` structure
- Updated internal documentation

tcsc__indx

- Alteration of system globals to use `g.tcsc` structure
- Removal of required bus input and superfluous `f` output
- Updated internal documentation

Linear Specific files

Alteration of system globals to use `g.tcsc` structure:

- `svm_mgen_Batch`
- `ns_file` (ran as a script)
- `p_m_file` (ran as a script)
- `p_file` (ran as a script)
- `p_cont` (ran as a script)