

The purpose of this document is to record what was done to enable SVC 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. It should be noted that there appears to be user defined SVC damping control functionality that is not fully implemented or documented.

Initial globals:

```
%% Original globals block condensed into g...
%% svc variables - 13
global  svc_con n_svc svc_idx svc_pot svcll_idx
global  svc_sig
% svc user defined damping controls
global n_dcud dcud_idx svc_dsig
global svc_dc % user damping controls?
global dxsvc_dc xsvc_dc
%states
global B_cv B_con
%dstates
global dB_cv dB_con
```

Modified globals:

```
global g
```

Non-Linear files

handleNewGlobals

- alteration of system globals to use g.svc structure

nc_load

- alteration of system globals to use g.svc structure

svc

- alteration of system globals to use g.svc structure

svc__indx

- alteration of system globals to use g.svc structure

s__simu__Batch

- alteration of system globals to use g.svc structure

Linear Specific files

Alteration of system globals to use `g.svc` 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)