

The purpose of this document is to record what was done to enable inductive motor loads `ind_con` and `mld_con` 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...
%% induction motor variables - 21
global tload t_init p_mot q_mot vdmot vqmot idmot iqmot ind_con ind_pot
global motbus ind_int mld_con n_mot t_mot
% states
global vdp vqp slip
% dstates
global dvdp dvqp dslip
% added globals
global s_mot
global sat_idx dbc_idx db_idx % has to do with version 2 of mac_ind
% changed all pmot to p_mot (mac_ind1 only)
```

Modified globals:

```
global g
```

Non-Linear files

handleNewGlobals

- Addition of `ind_con` and `mld_con` to global `g.ind`

ind_ldto

- Addition to `ind` to global `g`
- Update of internal function documentation.

i_simu

- Addition to `ind` to global `g`

mac_ind1

- Addition to `ind` to global `g`
- updated internal function documentation
- Is the simple induction model from v2.3

mac_ind2

- Addition to `ind` to global `g`
- updated internal function documentation
- Is the more detailed model from v3

red_ybus

- Addition to `ind` to global `g`

s_simu_Batch

- Addition to `ind` to global `g`

Linear Specific files

mac_indx

- Addition to `ind` to global `g`

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