

The purpose of this document is to record what was done to enable **tg** PST models to use the structured global variable **g** and other ‘clean up’ actions taken. Each paragraph describes the required changes the PST file that has anything to do with load modulation.

Initial globals:

```
%% turbine-governor variables
    global  tg_con tg_pot
    global  tg1 tg2 tg3 tg4 tg5 dtg1 dtg2 dtg3 dtg4 dtg5
    global  tg_idx  n_tg tg_sig tgh_idx n_tgh
```

Modified globals:

`global g`

`tg_idx`

- properly funtionalized
- rename of function to match file name (from `gov_idx`)
- addition of ‘new standard’ comments
- prepend `tg` globals with `g.tg`.

handNewGlobals.m

- Addition of if statement to properly handle legacy data inputs

s_simu_Batch.m

- prepened `tg` globals to create proper variables for zero init
- prepened `g.tg`. to predictor corrector integration

tg.m

- removed bus from function input (not used)
- clean up of comments
- addition of `g.tg`. to globals...

mtg_sig.m

- Commented out, but added `g.tg` to proper places

svm_mgen_Batch.m

- added `pst_var` globals to main script for global highlighting
- Prependded `g.tg`. where appropriate

Not Called from s_simu_Batch

Linearization work: (06/11/20)

- p_cont
- p_tg - added g.tg. to all pertrubations of states
- p_file
- nm_if - added global g to top
- ns_file - added g.tg to on if on line 127