Model Controls

This is the example vignette for function: **snw_mp_control** from the **PrjOptiSNW Package.** This function sets and gets different control parameters.

Test SNW_MP_CONTROLS Defaults

Call the function with defaults.

```
mp_controls = snw_mp_control('default_base', true);
pos = 37 ; key = options
 fmincon options:
  Options used by current Algorithm ('interior-point'):
   (Other available algorithms: 'active-set', 'sqp', 'sqp-legacy', 'trust-region-reflective')
  Set properties:
                      Display: 'off'
  Default properties:
                    Algorithm: 'interior-point'
               CheckGradients: 0
          ConstraintTolerance: 1.0000e-06
     FiniteDifferenceStepSize: 'sqrt(eps)'
         FiniteDifferenceType: 'forward'
        HessianApproximation: 'bfgs'
                   HessianFcn: []
          HessianMultiplyFcn: []
                 HonorBounds: 1
       MaxFunctionEvaluations: 3000
               MaxIterations: 1000
               ObjectiveLimit: -1.0000e+20
          OptimalityTolerance: 1.0000e-06
                    OutputFcn: []
                      PlotFcn: []
                 ScaleProblem: 0
    SpecifyConstraintGradient: 0
    SpecifyObjectiveGradient: 0
                StepTolerance: 1.0000e-10
          SubproblemAlgorithm: 'factorization'
                     TypicalX: 'ones(numberOfVariables,1)'
                 UseParallel: 0
  Show options not used by current Algorithm ('interior-point')
pos = 38 ; key = options2
  fsolve options:
  Options used by current Algorithm ('trust-region-dogleg'):
   (Other available algorithms: 'levenberg-marquardt', 'trust-region')
  Set properties:
                     Display: 'off'
  Default properties:
                   Algorithm: 'trust-region-dogleg'
              CheckGradients: 0
   FiniteDifferenceStepSize: 'sqrt(eps)'
       FiniteDifferenceType: 'forward'
           FunctionTolerance: 1.0000e-06
     MaxFunctionEvaluations: '100*numberOfVariables'
```

MaxIterations: 400

OptimalityTolerance: 1.0000e-06

OutputFcn: []
PlotFcn: []

SpecifyObjectiveGradient: 0

StepTolerance: 1.0000e-06

TypicalX: 'ones(numberOfVariables,1)'

UseParallel: 0

Show options not used by current Algorithm ('trust-region-dogleg')

^^^^^	i	idx	value
A_aux	1	1	NaN
Aeq	2	2	NaN
B_aux	3	3	NaN
Beq	4	4	NaN
bl_compute_drv_stats	5	5	1
bl_print_a4chk	6	6	1
bl_print_a4chk_verbose	7	7	0
bl_print_ds	8	8	1
bl_print_ds_aggregation	9	9	1
<pre>bl_print_ds_aggregation_verbose</pre>	10	10	0
bl_print_ds_verbose	11	11	0
bl_print_evuvw19_jaeemk	12	12	1
bl_print_evuvw19_jaeemk_verbose	13	13	0
bl_print_evuvw19_jmky	14	14	1
bl_print_evuvw19_jmky_allchecks	15	15	1
<pre>bl_print_evuvw19_jmky_allchecks_verbose</pre>	16	16	0
bl_print_evuvw19_jmky_mass	17	17	1
bl_print_evuvw19_jmky_mass_verbose	18	18	0
bl_print_evuvw19_jmky_verbose	19	19	0
bl_print_evuvw20_jaeemk	20	20	1
bl_print_evuvw20_jaeemk_verbose	21	21	0
bl_print_find_tax_rate	22	22	1
bl_print_find_tax_rate_verbose	23	23	0
bl_print_precompute	24	24	1
bl_print_precompute_verbose	25	25	0
bl_print_v_planner	26	26	1
bl_print_v_planner_verbose	27	27	0
bl_print_vfi	28	28	1
bl_print_vfi_verbose	29	29	0
bl_print_vu_vw	30	30	1
bl_print_vu_vw_verbose	31	31	0
bl_timer	32	32	1
err	33	33	1
fl_max_trchk_perc_increase	34	34	1.5
nonlcon	35	36	NaN
tol	36	39	0.005

i idx string

mp_params_name "1" "35" "default_base"