# Compute for Equilibrium Tax

Taking advantage of **snw\_find\_tax\_rate** from the **PrjOptiSNW Package**, this function solves for equilibrium tax rate.

## **Parameter Controls**

```
clear all;
mp_params = snw_mp_param('default_docdense');
% mp_params = snw_mp_param('default_dense');
% mp_params = snw_mp_param('default_base');
% mp_params = snw_mp_param('default_small');
mp_params('beta') = 0.95;
xi=0.651; % Proportional reduction in income due to unemployment (xi=0 refers to 0 labor income b=1; % Unemployment insurance replacement rate (b=0 refers to no UI benefits; b=1 refers to 100 mp_params('xi') = xi;
mp_params('b') = b;
mp_controls = snw_mp_control('default_test');
```

#### Parameters for COVID related Costs:

```
% Average check per household, given COVID actual policy payment schedule
% And given distribution. The number is from averaging over the actual
% allocations given distribution.
Covid_checks_per_capita = 18.7255856*100/62502;
% Covid_checks_per_capita = 0;
% which tax parameter to change a2 is the deafult, a0 shifts max tax rate
bl_adjust_a0 = false;
bl_load_existing = false;
```

#### Graph Controls etc:

```
mp_controls('bl_timer') = true;
mp_controls('bl_print_vfi') = false;
mp_controls('bl_print_vfi_verbose') = false;
mp_controls('bl_print_ds') = false;
mp_controls('bl_print_ds_verbose') = false;
mp_controls('bl_print_find_tax_rate') = true;
mp_controls('bl_print_find_tax_rate_verbose') = true;
```

### Solve for New Tax Rate

Solve for Equilibrium Tax rate that clears government costs and income. In the extreme bounding exercise, we assume the government will pay COVID costs all in one year. This is to test whether an extreme tax scenario will lead to changes in allocation results.

Given the checks that the government hands out and the taxes imposed, individual resources post-tax are different in 2020. Households' savings decisions in 2020 vary with taxes and checks. However, the policy function post 2020 shifts back to the previous non-COVID world's policy function because the COVID shock is an one period surprise shock.

```
Completed SNW VFI MAIN BISEC VEC; SNW MP PARAM=default docdense; SNW MP CONTROL=default test; time=315.585
Completed SNW_DS_MAIN_VEC;SNW_MP_PARAM=default_docdense;SNW_MP_CONTROL=default_test;time=1056.1907
Wage quintile cutoffs=0.4645
                                 0.71528
                                              1.0335
Y_inc_agg=61.7582
A agg=119.2022
Y_inc_agg_per_capita_1=1.3486
A_per_capita=2.6031
Gov cons per capita=0.23703
Covid checks share of GDP=0.022215
SNW FIND TAX RATE: Aggregation, Finished Age Group: 1 of 83, time-this-age: 0.40805
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:2 of 83, time-this-age:0.33319
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group: 3 of 83, time-this-age: 0.41771
SNW FIND TAX RATE: Aggregation, Finished Age Group: 4 of 83, time-this-age: 0.34531
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:5 of 83, time-this-age:0.33489
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:6 of 83, time-this-age:0.35842
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:7 of 83, time-this-age:0.35655
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:8 of 83, time-this-age:0.35122
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:9 of 83, time-this-age:0.33076
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:10 of 83, time-this-age:0.33222
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:11 of 83, time-this-age:0.32783
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:12 of 83, time-this-age:0.32957
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:13 of 83, time-this-age:0.33172
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:14 of 83, time-this-age:0.37079
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:15 of 83, time-this-age:0.36121
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:16 of 83, time-this-age:0.34383
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:17 of 83, time-this-age:0.32866
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:18 of 83, time-this-age:0.31896
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:19 of 83, time-this-age:0.32354
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group: 20 of 83, time-this-age: 0.35757
SNW FIND TAX RATE: Aggregation, Finished Age Group:21 of 83, time-this-age:0.35162
SNW FIND TAX RATE: Aggregation, Finished Age Group: 22 of 83, time-this-age: 0.33998
SNW FIND TAX RATE: Aggregation, Finished Age Group: 23 of 83, time-this-age: 0.32237
SNW FIND TAX RATE: Aggregation, Finished Age Group: 24 of 83, time-this-age: 0.32174
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:25 of 83, time-this-age:0.38317
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:26 of 83, time-this-age:0.342
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:27 of 83, time-this-age:0.32267
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:28 of 83, time-this-age:0.34224
SNW FIND TAX RATE: Aggregation, Finished Age Group: 29 of 83, time-this-age: 0.34442
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:30 of 83, time-this-age:0.35185
SNW FIND TAX RATE: Aggregation, Finished Age Group: 31 of 83, time-this-age: 0.32489
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:32 of 83, time-this-age:0.32887
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SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:42 of 83, time-this-age:0.32294
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:43 of 83, time-this-age:0.34509
SNW FIND TAX RATE: Aggregation, Finished Age Group: 44 of 83, time-this-age: 0.32763
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SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:48 of 83, time-this-age:0.36399
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:49 of 83, time-this-age:0.37545
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:50 of 83, time-this-age:0.37864
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SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:52 of 83, time-this-age:0.3398
SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:53 of 83, time-this-age:0.34794
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SNW_FIND_TAX_RATE: Aggregation, Finished Age Group:73 of 83, time-this-age:0.34066
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SNW_FIND_TAX_RATE tax a2 or a0 adjustments; a2=2.65; a0=0.258; err=0.13583; f1_total_costs=16.3562; Tax_revenues_aux=14.3
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SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=3.4506;a0=0.258;err=0.10028;fl_total_costs=16.3562;Tax_revenues_aux=14
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=3.7096;a0=0.258;err=0.091993;fl_total_costs=16.3562;Tax_revenues_aux=1
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=3.9648;a0=0.258;err=0.084884;fl_total_costs=16.3562;Tax_revenues_aux=1
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SNW FIND TAX RATE tax a2 or a0 adjustments; a2=6.7616; a0=0.258; err=0.042406; fl total costs=16.3562; Tax revenues aux=1
SNW_FIND_TAX_RATE tax a2 or a0 adjustments; a2=6.975; a0=0.258; err=0.040597; fl_total_costs=16.3562; Tax_revenues_aux=19.040597; fl_total_costs=16.3562; Tax_revenues_aux=19.04059; fl_total_costs=16.3562; Tax_revenues_aux=19.04059; fl_total_costs=16.3562; fl_total_costs=16.3562
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```

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SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=9.7073;a0=0.258;err=0.024751;fl_total_costs=16.3562;Tax_revenues_aux=1
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SNW_FIND_TAX_RATE tax a2 or a0 adjustments; a2=13.3732; a0=0.258; err=0.014135; f1_total_costs=16.3562; Tax_revenues_aux=
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=13.5139;a0=0.258;err=0.013851;fl_total_costs=16.3562;Tax_revenues_aux=
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=13.6531;a0=0.258;err=0.013576;fl_total_costs=16.3562;Tax_revenues_aux=
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=13.791;a0=0.258;err=0.013309;fl_total_costs=16.3562;Tax_revenues_aux=1
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=13.9275;a0=0.258;err=0.01305;fl_total_costs=16.3562;Tax_revenues_aux=1
SNW FIND TAX RATE tax a2 or a0 adjustments; a2=14.0628; a0=0.258; err=0.0128; fl total costs=16.3562; Tax revenues aux=16
SNW_FIND_TAX_RATE tax a2 or a0 adjustments; a2=14.1967; a0=0.258; err=0.012557; fl_total_costs=16.3562; Tax_revenues_aux=
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=14.3293;a0=0.258;err=0.012321;fl_total_costs=16.3562;Tax_revenues_aux=
SNW_FIND_TAX_RATE tax a2 or a0 adjustments; a2=14.4606; a0=0.258; err=0.012092; fl_total_costs=16.3562; Tax_revenues_aux=
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=14.5907;a0=0.258;err=0.01187;fl_total_costs=16.3562;Tax_revenues_aux=1
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=14.7195;a0=0.258;err=0.011654;fl_total_costs=16.3562;Tax_revenues_aux=
SNW_FIND_TAX_RATE tax a2 or a0 adjustments; a2=14.8472; a0=0.258; err=0.011444; fl_total_costs=16.3562; Tax_revenues_aux=
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=14.9736;a0=0.258;err=0.01124;fl_total_costs=16.3562;Tax_revenues_aux=1
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=15.0988;a0=0.258;err=0.011041;fl_total_costs=16.3562;Tax_revenues_aux=
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=15.2228;a0=0.258;err=0.010848;fl_total_costs=16.3562;Tax_revenues_aux=
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=15.3456;a0=0.258;err=0.01066;fl_total_costs=16.3562;Tax_revenues_aux=1
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=15.4673;a0=0.258;err=0.010477;fl_total_costs=16.3562;Tax_revenues_aux=
SNW_FIND_TAX_RATE tax a2 or a0 adjustments; a2=15.5879; a0=0.258; err=0.010299; f1_total_costs=16.3562; Tax_revenues_aux=
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=15.7073;a0=0.258;err=0.010126;fl_total_costs=16.3562;Tax_revenues_aux=
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=15.8257;a0=0.258;err=0.0099566;fl_total_costs=16.3562;Tax_revenues_aux
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=15.9429;a0=0.258;err=0.0097918;fl_total_costs=16.3562;Tax_revenues_aux
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=16.059;a0=0.258;err=0.0096311;fl_total_costs=16.3562;Tax_revenues_aux=
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=16.1741;a0=0.258;err=0.0094744;fl_total_costs=16.3562;Tax_revenues_aux
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=16.2881;a0=0.258;err=0.0093215;fl_total_costs=16.3562;Tax_revenues_aux
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=16.4011;a0=0.258;err=0.0091723;fl_total_costs=16.3562;Tax_revenues_aux
SNW FIND TAX RATE tax a2 or a0 adjustments; a2=16.513; a0=0.258; err=0.0090267; fl total costs=16.3562; Tax revenues aux=
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=16.6239;a0=0.258;err=0.0088845;fl_total_costs=16.3562;Tax_revenues_aux
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=16.7338;a0=0.258;err=0.0087457;fl_total_costs=16.3562;Tax_revenues_aux
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=16.8426;a0=0.258;err=0.0086101;fl_total_costs=16.3562;Tax_revenues_aux
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=16.9505;a0=0.258;err=0.0084776;fl_total_costs=16.3562;Tax_revenues_aux
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=17.0574;a0=0.258;err=0.0083482;fl_total_costs=16.3562;Tax_revenues_aux
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=17.1634;a0=0.258;err=0.0082216;fl_total_costs=16.3562;Tax_revenues_aux
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=17.2684;a0=0.258;err=0.0080979;fl_total_costs=16.3562;Tax_revenues_aux
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=17.3724;a0=0.258;err=0.0079769;fl_total_costs=16.3562;Tax_revenues_aux
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=17.4755;a0=0.258;err=0.0078586;fl_total_costs=16.3562;Tax_revenues_aux
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=17.5777;a0=0.258;err=0.0077428;fl_total_costs=16.3562;Tax_revenues_aux
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=17.6789;a0=0.258;err=0.0076295;fl_total_costs=16.3562;Tax_revenues_aux
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=17.7793;a0=0.258;err=0.0075186;fl_total_costs=16.3562;Tax_revenues_aux
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=17.8787;a0=0.258;err=0.0074101;fl_total_costs=16.3562;Tax_revenues_aux
SNW FIND TAX_RATE tax a2 or a0 adjustments;a2=17.9773;a0=0.258;err=0.0073038;fl_total_costs=16.3562;Tax_revenues_aux
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=18.075;a0=0.258;err=0.0071997;fl_total_costs=16.3562;Tax_revenues_aux=
SNW_FIND_TAX_RATE tax a2 or a0 adjustments;a2=18.1718;a0=0.258;err=0.0070978;fl_total_costs=16.3562;Tax_revenues_aux
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