2019 Full States MPC and Distributional Statistics by Marital, Kids, and Income Groups.

In the file here, we consider marital, kids and income groups, and summarize various statistics for each bin.

Test SNW_EVUVW19_JAEEMK Defaults Dense

VFI and Distribution

Call the function with defaults.

```
clear all;
st_solu_type = 'bisec_vec';
bl_save_csv = false;

% Solve the VFI Problem and get Value Function
mp_params = snw_mp_param('default_dense');
% mp_params = snw_mp_param('default_docdense');
% mp_params = snw_mp_param('default_moredense_a65zh133zs5_e2m2');
mp_controls = snw_mp_control('default_test');

% set Unemployment Related Variables
xi=0.5; % 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
TR=100/58056; % Value of a welfare check (can receive multiple checks). TO DO: Update with alte

mp_params('xi') = xi;
mp_params('b') = b;
mp_params('TR') = TR;

% Solve for Unemployment Values
mp_controls('bl_print_vfi') = false;
mp_controls('bl_print_vfi_verbose') = false;
mp_controls('bl_print_ds') = true;
mp_controls('bl_print_ds_verbose') = true;
mp_controls('bl_print_precompute') = false;
mp_controls('bl_print_precompute_verbose') = false;
mp_controls('bl_print_a4chk') = false;
mp_controls('bl_print_a4chk_verbose') = false;
mp_controls('bl_print_evuvw20_jaeemk') = false;
mp_controls('bl_print_evuvw20_jaeemk_verbose') = false;
mp_controls('bl_print_evuvw19_jaeemk') = false;
mp_controls('bl_print_evuvw19_jaeemk_verbose') = false;

% Solve the Model to get V working and unemployed
[V_ss,ap_ss,cons_ss,mp_valpol_more_ss] = snw_vfi_main_bisec_vec(mp_params, mp_controls);
```

```
Completed SNW_VFI_MAIN_BISEC_VEC;SNW_MP_PARAM=default_dense;SNW_MP_CONTROL=default_test;time=22.9561
```

```
inc_VFI = mp_valpol_more_ss('inc_VFI');
spouse_inc_VFI = mp_valpol_more_ss('spouse_inc_VFI');
total_inc_VFI = inc_VFI + spouse_inc_VFI;
% tax during covid year
```

```
mp_params('a2_covidyr') = mp_params('a2_covidyr_manna_heaven');
% Solve unemployment
[V_unemp,~,cons_unemp,~] = snw_vfi_main_bisec_vec(mp_params, mp_controls, V_ss);
```

```
Completed SNW_VFI_MAIN_BISEC_VEC 1 Period Unemp Shock;SNW_MP_PARAM=default_dense;SNW_MP_CONTROL=default_test;time=22
```

```
[Phi_true, Phi_adj, A_agg, Y_inc_agg, ~, mp_dsvfi_results] = snw_ds_main_vec(mp_params, mp_cont
```

```
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:1 of 82, time-this-age:0.029239
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:2 of 82, time-this-age:0.016663
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:3 of 82, time-this-age:0.009152
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:4 of 82, time-this-age:0.0096268
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:5 of 82, time-this-age:0.010627
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:6 of 82, time-this-age:0.011383
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:7 of 82, time-this-age:0.012911
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:8 of 82, time-this-age:0.010868
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:9 of 82, time-this-age:0.011394
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:10 of 82, time-this-age:0.012799
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:11 of 82, time-this-age:0.01179
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:12 of 82, time-this-age:0.011919
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:13 of 82, time-this-age:0.011919
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:14 of 82, time-this-age:0.01258
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:15 of 82, time-this-age:0.013501
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:16 of 82, time-this-age:0.013396
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:17 of 82, time-this-age:0.013812
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:18 of 82, time-this-age:0.013587
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:19 of 82, time-this-age:0.013511
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:20 of 82, time-this-age:0.01372
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:21 of 82, time-this-age:0.014809
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:22 of 82, time-this-age:0.013505
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:23 of 82, time-this-age:0.01342
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:24 of 82, time-this-age:0.013055
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:25 of 82, time-this-age:0.013746
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:26 of 82, time-this-age:0.013674
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:27 of 82, time-this-age:0.013862
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:28 of 82, time-this-age:0.013809
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:29 of 82, time-this-age:0.013671
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:30 of 82, time-this-age:0.014265
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:31 of 82, time-this-age:0.014111
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:32 of 82, time-this-age:0.014076
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:33 of 82, time-this-age:0.014825
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:34 of 82, time-this-age:0.015003
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:35 of 82, time-this-age:0.015155
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:36 of 82, time-this-age:0.015409
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:37 of 82, time-this-age:0.015001
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:38 of 82, time-this-age:0.014901
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:39 of 82, time-this-age:0.01472
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:40 of 82, time-this-age:0.01399
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:41 of 82, time-this-age:0.015273
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:42 of 82, time-this-age:0.014662
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:43 of 82, time-this-age:0.014354
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:44 of 82, time-this-age:0.014519
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:45 of 82, time-this-age:0.014029
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:46 of 82, time-this-age:0.013929
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:47 of 82, time-this-age:0.014582
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:48 of 82, time-this-age:0.014413
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:49 of 82, time-this-age:0.015316
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:50 of 82, time-this-age:0.026832
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:51 of 82, time-this-age:0.016146
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:52 of 82, time-this-age:0.01488
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:53 of 82, time-this-age:0.015132
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:54 of 82, time-this-age:0.015169
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:55 of 82, time-this-age:0.015382
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:56 of 82, time-this-age:0.015548
```

```
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:57 of 82, time-this-age:0.015454
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:58 of 82, time-this-age:0.0233
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:59 of 82, time-this-age:0.019329
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:60 of 82, time-this-age:0.026049
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:61 of 82, time-this-age:0.016421
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:62 of 82, time-this-age:0.01622
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:63 of 82, time-this-age:0.017622
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:64 of 82, time-this-age:0.017581
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:65 of 82, time-this-age:0.016036
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:66 of 82, time-this-age:0.016376
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:67 of 82, time-this-age:0.017262
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:68 of 82, time-this-age:0.017246
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:69 of 82, time-this-age:0.014899
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:70 of 82, time-this-age:0.014471
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:71 of 82, time-this-age:0.014475
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:72 of 82, time-this-age:0.015211
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:73 of 82, time-this-age:0.014548
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:74 of 82, time-this-age:0.01759
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:75 of 82, time-this-age:0.018331
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:76 of 82, time-this-age:0.015686
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:77 of 82, time-this-age:0.014726
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:78 of 82, time-this-age:0.012675
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:79 of 82, time-this-age:0.011827
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:80 of 82, time-this-age:0.012289
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:81 of 82, time-this-age:0.011706
SNW_DS_MAIN_VEC ACUMU MASS: Finished Age Group:82 of 82, time-this-age:0.014622
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:1 of 82, time-this-age:0.023471
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:2 of 82, time-this-age:0.0052438
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:3 of 82, time-this-age:0.0042565
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:4 of 82, time-this-age:0.0041269
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:5 of 82, time-this-age:0.0050169
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:6 of 82, time-this-age:0.0040699
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:7 of 82, time-this-age:0.0038545
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:8 of 82, time-this-age:0.0039223
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:9 of 82, time-this-age:0.0038864
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:10 of 82, time-this-age:0.0039539
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:11 of 82, time-this-age:0.0038969
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:12 of 82, time-this-age:0.0038418
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:13 of 82, time-this-age:0.0043201
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:14 of 82, time-this-age:0.003949
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:15 of 82, time-this-age:0.0039524
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:16 of 82, time-this-age:0.0038261
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:17 of 82, time-this-age:0.0038471
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:18 of 82, time-this-age:0.0039387
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:19 of 82, time-this-age:0.0039155
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:20 of 82, time-this-age:0.0038942
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:21 of 82, time-this-age:0.0025092
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:22 of 82, time-this-age:0.0007304
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:23 of 82, time-this-age:0.0007448
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:24 of 82, time-this-age:0.0007197
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:25 of 82, time-this-age:0.0007167
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:26 of 82, time-this-age:0.0007516
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:27 of 82, time-this-age:0.0007058
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:28 of 82, time-this-age:0.0007665
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:29 of 82, time-this-age:0.0007639
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:30 of 82, time-this-age:0.000741
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:31 of 82, time-this-age:0.0007585
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:32 of 82, time-this-age:0.0007474
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:33 of 82, time-this-age:0.0007443
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:34 of 82, time-this-age:0.0007313
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:35 of 82, time-this-age:0.0011116
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:36 of 82, time-this-age:0.0007897
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:37 of 82, time-this-age:0.0007249
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:38 of 82, time-this-age:0.0007158
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:39 of 82, time-this-age:0.0007205
```

```
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:40 of 82, time-this-age:0.0010666
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:41 of 82, time-this-age:0.0008885
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:42 of 82, time-this-age:0.0007583
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:43 of 82, time-this-age:0.0007534
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:44 of 82, time-this-age:0.0008679
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:45 of 82, time-this-age:0.0007628
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:46 of 82, time-this-age:0.0010092
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:47 of 82, time-this-age:0.0007647
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:48 of 82, time-this-age:0.0007174
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:49 of 82, time-this-age:0.0007289
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:50 of 82, time-this-age:0.0007342
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:51 of 82, time-this-age:0.0007404
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:52 of 82, time-this-age:0.0007195
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:53 of 82, time-this-age:0.0007268
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:54 of 82, time-this-age:0.0007029
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:55 of 82, time-this-age:0.0008718
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:56 of 82, time-this-age:0.0007301
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:57 of 82, time-this-age:0.0007453
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:58 of 82, time-this-age:0.0010518
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:59 of 82, time-this-age:0.000753
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:60 of 82, time-this-age:0.0007708
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:61 of 82, time-this-age:0.0007168
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:62 of 82, time-this-age:0.0007156
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:63 of 82, time-this-age:0.0007155
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:64 of 82, time-this-age:0.0007162
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:65 of 82, time-this-age:0.0007288
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:66 of 82, time-this-age:0.0007528
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:67 of 82, time-this-age:0.0008274
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:68 of 82, time-this-age:0.0007941
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:69 of 82, time-this-age:0.0007326
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:70 of 82, time-this-age:0.0007521
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:71 of 82, time-this-age:0.0007071
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:72 of 82, time-this-age:0.0009437
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:73 of 82, time-this-age:0.0007465
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:74 of 82, time-this-age:0.0010013
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:75 of 82, time-this-age:0.0007155
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:76 of 82, time-this-age:0.0007165
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:77 of 82, time-this-age:0.0007196
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:78 of 82, time-this-age:0.0007107
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:79 of 82, time-this-age:0.0007432
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:80 of 82, time-this-age:0.0012736
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:81 of 82, time-this-age:0.00077
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:82 of 82, time-this-age:0.0007369
SNW_DS_MAIN NORMALIZE MASS: Finished Age Group:83 of 82, time-this-age:0.0007258
SNW_DS_MAIN: Share of population with assets equal to upper bound on asset grid:0.00029719
SNW_DS_MAIN: Accidental bequests are thrown in the ocean
SNW_DS_MAIN_VEC tax and spend;it=1;err=0.071695
SNW_DS_MAIN_VEC tax and spend;it=2;err=0.061863
SNW_DS_MAIN_VEC tax and spend;it=3;err=0.053103
SNW_DS_MAIN_VEC tax and spend;it=4;err=0.045376
SNW_DS_MAIN_VEC tax and spend;it=5;err=0.03862
SNW_DS_MAIN_VEC tax and spend;it=6;err=0.032757
SNW_DS_MAIN_VEC tax and spend;it=7;err=0.027702
SNW_DS_MAIN_VEC tax and spend;it=8;err=0.023368
SNW_DS_MAIN_VEC tax and spend;it=9;err=0.019669
SNW_DS_MAIN_VEC tax and spend;it=10;err=0.016526
SNW_DS_MAIN_VEC tax and spend;it=11;err=0.013864
SNW_DS_MAIN_VEC tax and spend;it=12;err=0.011615
SNW_DS_MAIN_VEC tax and spend;it=13;err=0.0097205
SNW_DS_MAIN_VEC tax and spend;it=14;err=0.0081275
SNW_DS_MAIN_VEC tax and spend;it=15;err=0.0067903
SNW_DS_MAIN_VEC tax and spend;it=16;err=0.0056694
SNW_DS_MAIN_VEC tax and spend;it=17;err=0.004731
SNW_DS_MAIN_VEC tax and spend;it=18;err=0.0039461
SNW_DS_MAIN_VEC tax and spend;it=19;err=0.0032902
```

```
SNW_DS_MAIN_VEC tax and spend;it=20;err=0.0027425
SNW_DS_MAIN_VEC tax and spend;it=21;err=0.0022853
SNW_DS_MAIN_VEC tax and spend;it=22;err=0.001904
SNW_DS_MAIN_VEC tax and spend;it=23;err=0.0015859
SNW_DS_MAIN_VEC tax and spend;it=24;err=0.0013208
SNW_DS_MAIN_VEC tax and spend;it=25;err=0.0010999
SNW_DS_MAIN_VEC tax and spend;it=26;err=0.00091583
SNW_DS_MAIN_VEC tax and spend;it=27;err=0.0007625
SNW_DS_MAIN_VEC tax and spend;it=28;err=0.00063479
SNW_DS_MAIN_VEC tax and spend;it=29;err=0.00052844
SNW_DS_MAIN_VEC tax and spend;it=30;err=0.00043988
SNW_DS_MAIN_VEC tax and spend;it=31;err=0.00036615
SNW_DS_MAIN_VEC tax and spend;it=32;err=0.00030476
SNW_DS_MAIN_VEC tax and spend;it=33;err=0.00025366
SNW_DS_MAIN_VEC tax and spend;it=34;err=0.00021113
SNW_DS_MAIN_VEC tax and spend;it=35;err=0.00017572
SNW_DS_MAIN_VEC tax and spend;it=36;err=0.00014625
SNW_DS_MAIN_VEC tax and spend;it=37;err=0.00012172
SNW_DS_MAIN_VEC tax and spend;it=38;err=0.0001013
SNW_DS_MAIN_VEC tax and spend;it=39;err=8.4306e-05
SNW_DS_MAIN_VEC: Number of a2-adjustments (for taxation) used to balance the government budget= 39
SNW_DS_MAIN_VEC: Old and updated value of a2=1.5286      1.0783
SNW_DS_MAIN_VEC: Aggregates: Cons., Gov. cons., Save, Assets, Income, Bequests 58.2521      13.89673       231.598
SNW_DS_MAIN_VEC: Resource constraint: C_t+A_{t+1}+G_t=A_t+Y_t 309.4987      310.6664
Completed SNW_DS_MAIN_VEC;SNW_MP_PARAM=default_dense;SNW_MP_CONTROL=default_test;time=41.2996
pos = 19 ; key = mp_controls
  Map with properties:

        Count: 39
      KeyType: char
    ValueType: any

pos = 20 ; key = mp_params
  Map with properties:

        Count: 56
      KeyType: char
    ValueType: any

----------------------------------------
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
CONTAINER NAME: mp_dsvfi_results ND Array (Matrix etc)
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

	i	idx	ndim	numel	rowN	colN	sum	mean	std	co
SS_ss	1	11	6	1.9173e+06	83	23100	2.2327e+05	0.11645	0.134	1
a_ss	2	16	6	1.9173e+06	83	23100	6.5907e+07	34.375	39.285	1
ap_ss	3	17	6	1.9173e+06	83	23100	6.2645e+07	32.674	37.052	
cons_ss	4	18	6	1.9173e+06	83	23100	1.0173e+07	5.3058	8.4424	1
n_ss	5	21	6	1.9173e+06	83	23100	6.7106e+06	3.5	1.5	0.
tax_ss	6	22	6	1.9173e+06	83	23100	2.1568e+06	1.1249	1.4827	
y_all_ss	7	23	6	1.9173e+06	83	23100	9.0679e+06	4.7295	5.8354	1
y_head_earn_ss	8	24	6	1.9173e+06	83	23100	3.7046e+06	1.9322	4.1103	2
y_head_inc_ss	9	25	6	1.9173e+06	83	23100	6.5642e+06	3.4237	4.351	1
y_spouse_inc_ss	10	26	6	1.9173e+06	83	23100	2.5038e+06	1.3059	3.3275	2
yshr_SS_ss	11	27	6	1.9173e+06	83	23100	2.8056e+05	0.14633	0.27151	1
yshr_interest_ss	12	28	6	1.9173e+06	83	23100	7.8947e+05	0.41176	0.35597	0
yshr_nttxss_ss	13	29	6	1.9173e+06	83	23100	1.0379e+05	0.054135	0.30397	
yshr_tax_ss	14	30	6	1.9173e+06	83	23100	3.8436e+05	0.20047	0.047536	0.
yshr_wage_ss	15	31	6	1.9173e+06	83	23100	8.4726e+05	0.4419	0.40398	0.

```
----------------------------------------
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
CONTAINER NAME: mp_dsvfi_results Scalars
```

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

	i	idx	value
A_agg	1	1	231.6
A_agg_perhh	2	2	5.0575
Aprime_agg	3	3	237.35
Aprime_agg_perhh	4	4	5.1831
Bequests_aux	5	5	3.3274
Bequests_aux_perhh	6	6	0.072662
C_agg	7	7	58.252
C_agg_perhh	8	8	1.2721
SS_spend	9	9	2.3908
SS_spend_perhh	10	10	0.052208
Tax_revenues	11	12	17.455
Tax_revenues_perhh	12	13	0.38118
Y_inc_agg	13	14	79.068
Y_inc_agg_perhh	14	15	1.7266

xxx tb_outcomes: all stats xxx

OriginalVariableNames	a_ss	ap_ss	cons_ss	n_ss	y_all	y_head_inc	y
{'mean' }	5.0575	5.1831	1.2721	2.3554	1.7789	1.3253	
{'unweighted_sum' }	1890.6	2.8276e+07	3.4349e+06	21	4.8514e+06	1.669e+05	
{'sd' }	9.5339	9.6353	1.1159	1.4375	2.4529	1.6165	
{'coefofvar' }	1.8851	1.859	0.8772	0.61029	1.3789	1.2197	
{'gini' }	0.75245	0.75409	0.42428	0.3128	0.536	0.50153	
{'min' }	0	0	0.03586	1	0.038108	0.038108	
{'max' }	135	163.52	141.66	6	50.873	24.357	
{'pYis0' }	0.24939	0.23014	0	0	0	0	
{'pYls0' }	0	0	0	0	0	0	
{'pYgr0' }	0.75061	0.76986	1	1	1	1	
{'pYisMINY' }	0.24939	0.23014	5.6603e-05	0.36005	6.9991e-05	0.00013305	
{'pYisMAXY' }	0.00029719	2.1695e-08	0	0.041101	2.1695e-08	1.7027e-06	
{'p0_01' }	0	0	0.036749	1	0.038143	0.038108	
{'p0_1' }	0	0	0.054907	1	0.0573	0.051291	
{'p1' }	0	0	0.11857	1	0.12855	0.10892	
{'p5' }	0	0	0.22114	1	0.24436	0.23032	
{'p10' }	0	0	0.28937	1	0.30963	0.26933	
{'p20' }	0	0	0.46744	1	0.44433	0.36589	
{'p25' }	0.00085734	0.0042436	0.54711	1	0.55029	0.40837	
{'p30' }	0.0068587	0.023148	0.60775	1	0.6356	0.51035	
{'p40' }	0.18519	0.20188	0.72346	2	0.83968	0.65779	
{'p50' }	0.85734	0.96821	0.98561	2	0.99511	0.84707	
{'p60' }	2.3525	2.6424	1.2645	2	1.3094	0.99714	
{'p70' }	5	4.7818	1.4771	3	1.7129	1.3744	
{'p75' }	5.8805	6.4503	1.6227	3	2.0028	1.56	
{'p80' }	7.9398	8.621	1.8602	4	2.3484	1.9421	
{'p90' }	15.069	15.422	2.5957	5	3.6515	2.7743	
{'p95' }	23.148	22.776	3.3053	5	6.0793	3.9069	
{'p99' }	43.427	43.714	5.4698	6	13.537	8.0297	
{'p99_9' }	94.815	93.685	9.2472	6	22.761	16.607	
{'p99_99' }	135	144.11	11.682	6	30.597	23.804	
{'fl_cov_a_ss' }	90.895	91.04	6.7737	-1.0887	9.1868	7.6496	
{'fl_cor_a_ss' }	1	0.99106	0.63672	-0.079439	0.39284	0.49636	
{'fl_cov_ap_ss' }	91.04	92.838	7.0155	-1.0373	11.724	8.2178	
{'fl_cor_ap_ss' }	0.99106	1	0.65251	-0.074892	0.49605	0.52762	
{'fl_cov_cons_ss' }	6.7737	7.0155	1.2451	0.31693	1.9737	1.5614	
{'fl_cor_cons_ss' }	0.63672	0.65251	1	0.19759	0.72111	0.86566	
{'fl_cov_n_ss' }	-1.0887	-1.0373	0.31693	2.0664	0.48437	0.14609	
{'fl_cor_n_ss' }	-0.079439	-0.074892	0.19759	1	0.13737	0.062871	
{'fl_cov_y_all' }	9.1868	11.724	1.9737	0.48437	6.0167	2.8313	
{'fl_cor_y_all' }	0.39284	0.49605	0.72111	0.13737	1	0.71405	
{'fl_cov_y_head_inc' }	7.6496	8.2178	1.5614	0.14609	2.8313	2.613	

{'fl_cor_y_head_inc' }	0.49636	0.52762	0.86566	0.062871	0.71405	1
{'fl_cov_y_head_earn' }	3.7829	4.3775	1.2936	0.23365	2.5103	2.3428
{'fl_cor_y_head_earn' }	0.26467	0.30306	0.7733	0.10842	0.68268	0.96677
{'fl_cov_y_spouse_inc' }	1.5372	3.506	0.41229	0.33828	3.1855	0.21825
{'fl_cor_y_spouse_inc' }	0.093602	0.21124	0.21449	0.13661	0.75391	0.07838
{'fl_cov_yshr_interest'}	1.1995	1.124	0.059452	-0.045267	-0.022049	0.0017974
{'fl_cor_yshr_interest'}	0.6667	0.6182	0.28234	-0.16687	-0.047636	0.0058925
{'fl_cov_yshr_wage' }	-1.1496	-1.0279	-0.0060917	0.15169	0.15271	0.089166
{'fl_cor_yshr_wage' }	-0.34889	-0.30868	-0.015796	0.30534	0.18014	0.15961
{'fl_cov_yshr_SS' }	-0.049895	-0.096141	-0.053361	-0.10643	-0.13066	-0.090963
{'fl_cor_yshr_SS' }	-0.021578	-0.04114	-0.19717	-0.30525	-0.21962	-0.23202
{'fl_cov_yshr_tax' }	0.15086	0.16714	0.032949	0.014261	0.064934	0.041698
{'fl_cor_yshr_tax' }	0.3927	0.43048	0.73279	0.24619	0.65696	0.64016
{'fl_cov_yshr_nttxss' }	0.20076	0.26328	0.08631	0.12069	0.19559	0.13266
{'fl_cor_yshr_nttxss' }	0.080237	0.10412	0.29473	0.31991	0.30384	0.31271
{'fracByP0_01' }	0	0	3.5352e-06	0.15286	3.9339e-06	3.8259e-06
{'fracByP0_1' }	0	0	3.6229e-05	0.15286	2.6676e-05	3.2804e-05
{'fracByP1' }	0	0	0.00071335	0.15286	0.00055857	0.00064849
{'fracByP5' }	0	0	0.0067884	0.15286	0.0051412	0.0062088
{'fracByP10' }	0	0	0.016786	0.15286	0.012952	0.016026
{'fracByP20' }	0	0	0.045218	0.15286	0.034089	0.039687
{'fracByP25' }	2.7189e-06	6.5475e-06	0.064468	0.15286	0.04762	0.054342
{'fracByP30' }	5.3275e-05	0.00012072	0.087359	0.15286	0.064153	0.070985
{'fracByP40' }	0.002025	0.0016864	0.13888	0.40183	0.10664	0.11466
{'fracByP50' }	0.01177	0.011431	0.20557	0.40183	0.15747	0.17335
{'fracByP60' }	0.043873	0.045668	0.29431	0.40183	0.22105	0.24097
{'fracByP70' }	0.13643	0.11712	0.40188	0.56321	0.30462	0.32918
{'fracByP75' }	0.16776	0.17083	0.46268	0.56321	0.35672	0.38357
{'fracByP80' }	0.24024	0.24272	0.53088	0.75407	0.41772	0.45135
{'fracByP90' }	0.48239	0.46606	0.70092	0.8953	0.57869	0.62507
{'fracByP95' }	0.67227	0.64503	0.81622	0.8953	0.70837	0.74928
{'fracByP99' }	0.88754	0.87924	0.94334	1	0.90207	0.91534
{'fracByP99_9' }	0.97995	0.97711	0.99184	1	0.98557	0.98448
{'fracByP99_99' }	1	0.99729	0.99905	1	0.99804	0.9984

```
% Get Matrixes
cl_st_precompute_list = {'a', 'ar_z_ctr_amz', ...
    'inc', 'inc_unemp', 'spouse_inc', 'spouse_inc_unemp', 'ref_earn_wageind_grid',...
    'ap_idx_lower_ss', 'ap_idx_higher_ss', 'ap_idx_lower_weight_ss'};
mp_controls('bl_print_precompute_verbose') = false;
[mp_precompute_res] = snw_hh_precompute(mp_params, mp_controls, cl_st_precompute_list, ap_ss, P
```

```
Wage quintile cutoffs=0.36193     0.72768     0.91192      2.1112
Completed SNW_HH_PRECOMPUTE;SNW_MP_PARAM=default_dense;SNW_MP_CONTROL=default_test;time cost=14.2367
```

Solve for 2019 Evuvw With 0 and 1 Checks

```
% Call Function
welf_checks = 0;
[ev19_jaeemk_check0, ec19_jaeemk_check0, ev20_jaeemk_check0, ec20_jaeemk_check0] = snw_evuvw19_
    welf_checks, st_solu_type, mp_params, mp_controls, ...
    V_ss, ap_ss, cons_ss, V_unemp, cons_unemp, mp_precompute_res);
```

```
Completed SNW_A4CHK_WRK_BISEC_VEC;welf_checks=0;TR=0.0017225;SNW_MP_PARAM=default_dense;SNW_MP_CONTROL=default_test;
Completed SNW_A4CHK_UNEMP_BISEC_VEC;welf_checks=0;TR=0.0017225;xi=0.5;b=1;SNW_MP_PARAM=default_dense;SNW_MP_CONTROL=
Completed SNW_EVUVW20_JAEEMK;SNW_MP_PARAM=default_dense;SNW_MP_CONTROL=default_test;timeEUEC=0.35161
Completed SNW_EVUVW19_JAEEMK_FOC;SNW_MP_PARAM=default_dense;SNW_MP_CONTROL=default_test;time=0.44456
```

```
% Call Function
welf_checks = 1;
[ev19_jaeemk_check2, ec19_jaeemk_check2, ev20_jaeemk_check2, ec20_jaeemk_check2] = snw_evuvw19_
```

```
    welf_checks, st_solu_type, mp_params, mp_controls, ...
    V_ss, ap_ss, cons_ss, V_unemp, cons_unemp, mp_precompute_res);
```

```
Completed SNW_A4CHK_WRK_BISEC_VEC;welf_checks=1;TR=0.0017225;SNW_MP_PARAM=default_dense;SNW_MP_CONTROL=default_test;
Completed SNW_A4CHK_UNEMP_BISEC_VEC;welf_checks=1;TR=0.0017225;xi=0.5;b=1;SNW_MP_PARAM=default_dense;SNW_MP_CONTROL=
Completed SNW_EVUVW20_JAEEMK;SNW_MP_PARAM=default_dense;SNW_MP_CONTROL=default_test;timeEUEC=0.16916
Completed SNW_EVUVW19_JAEEMK_FOC;SNW_MP_PARAM=default_dense;SNW_MP_CONTROL=default_test;time=0.45748
```

Differences between Checks in Expected Value and Expected Consumption

```
mn_V_U_gain_check = ev19_jaeemk_check2 - ev19_jaeemk_check0;
mn_MPC_C_gain_share_check = (ec19_jaeemk_check2 - ec19_jaeemk_check0)./(welf_checks*mp_params('
```

Additional Variables

Create additional Staet-Spac Arrays

```
% (n_jgrid,n_agrid,n_etagrid,n_educgrid,n_marriedgrid,n_kidsgrid);
% Children Array
ar_kids = (1:mp_params('n_kidsgrid')) - 1;
mn_kids = zeros(1,1,1,1,1,length(ar_kids));
mn_kids(1,1,1,1,1,:) = ar_kids;
kids_ss = repmat(mn_kids, [mp_params('n_jgrid'), mp_params('n_agrid'), mp_params('n_etagrid'),
    mp_params('n_educgrid'), mp_params('n_marriedgrid'), 1]);
% Marital Status Arrays
ar_marital = (1:mp_params('n_marriedgrid')) - 1;
mn_marital = zeros(1,1,1,1,length(ar_marital),1);
mn_marital(1,1,1,1,:,1) = ar_marital;
marital_ss = repmat(mn_marital, [mp_params('n_jgrid'), mp_params('n_agrid'), mp_params('n_etagr
    mp_params('n_educgrid'), 1, mp_params('n_kidsgrid')]);
% Educational Status Arrays
ar_educ = (1:mp_params('n_educgrid')) - 1;
mn_educ = zeros(1,1,1,length(ar_educ),1,1);
mn_educ(1,1,1,:,1,1) = ar_educ;
educ_ss = repmat(mn_educ, [mp_params('n_jgrid'), mp_params('n_agrid'), mp_params('n_etagrid'),
    1, mp_params('n_marriedgrid'), mp_params('n_kidsgrid')]);
% Age Array
ar_age = (1:mp_params('n_jgrid')) + 18;
mn_age = zeros(length(ar_age),1,1,1,1,1);
mn_age(:,1,1,1,1,1) = ar_age;
age_ss = repmat(mn_age, [1, mp_params('n_agrid'), mp_params('n_etagrid'), ...
    mp_params('n_educgrid'), mp_params('n_marriedgrid'), mp_params('n_kidsgrid')]);
```

Adjust to Probability Mass Function

```
Phi_true_1 = Phi_true./sum(Phi_true,'all');
```

Age Bounds

```
% 1 = 18
min_age = 1
```

```
min_age = 1
```

```
% retirement, 46+18=64, the year prior to retirement year.
max_age = 46;
```

Scale Statistics to Thousands of Dollars

```
a_ss = mp_dsvfi_results('a_ss')*58.056;
ap_ss = mp_dsvfi_results('ap_ss')*58.056;
c_ss = mp_dsvfi_results('cons_ss')*58.056;
n_ss = mp_dsvfi_results('n_ss');
% household head + spousal (realized) income
y_all = mp_dsvfi_results('y_all_ss')*58.056;
y_head_inc = mp_dsvfi_results('y_head_inc_ss')*58.056;
y_spouse_inc = mp_dsvfi_results('y_spouse_inc_ss')*58.056;

yshr_wage = mp_dsvfi_results('yshr_wage_ss');
yshr_SS = mp_dsvfi_results('yshr_SS_ss');
yshr_nttxss = mp_dsvfi_results('yshr_nttxss_ss');
```

Distributional Statistics Overall All Ages

```
% construct input data
marital_grp = marital_ss(min_age:82, :, :, : ,: ,:);
y_all_grp = y_all(min_age:82, :, :, : ,: ,:);
age_ss_grp = age_ss(min_age:82, :, :, : ,: ,:);
educ_ss_grp = educ_ss(min_age:82, :, :, : ,: ,:);
a_ss_grp = a_ss(min_age:82, :, :, : ,: ,:);
ap_ss_grp = ap_ss(min_age:82, :, :, : ,: ,:);
mn_MPC_C_gain_share_check_grp = mn_MPC_C_gain_share_check(min_age:82, :, :, :, :, :);
Phi_true_grp = Phi_true_1(min_age:82, :, :, : ,: ,:);
c_ss_grp = c_ss(min_age:82, :, :, : ,: ,:);
y_head_inc_grp = y_head_inc(min_age:82, :, :, : ,: ,:);
y_spouse_inc_grp = y_spouse_inc(min_age:82, :, :, : ,: ,:);
yshr_nttxss_grp = yshr_nttxss(min_age:82, :, :, : ,: ,:);

mp_cl_ar_xyz_of_s = containers.Map('KeyType','char', 'ValueType','any');
mp_cl_ar_xyz_of_s('married') = {marital_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('y_all') = {y_all_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('age_ss') = {age_ss_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('educ_ss') = {educ_ss_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('a_ss') = {a_ss_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('ap_ss') = {ap_ss_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('MPC') = {mn_MPC_C_gain_share_check_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('Mass') = {Phi_true_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('c_ss') = {c_ss_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('y_head_inc') = {y_head_inc_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('y_spouse') = {y_spouse_inc_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('yshr_nttxss') = {yshr_nttxss_grp(:), zeros(1)};

mp_cl_ar_xyz_of_s('ar_st_y_name') = ["married", "y_all", "age_ss", "educ_ss", "a_ss", "ap_ss",

% controls
```

```
mp_support = containers.Map('KeyType','char', 'ValueType','any');
mp_support('ar_fl_percentiles') = [0.01 10 25 50 75 90 99.99];
mp_support('bl_display_final') = true;
mp_support('bl_display_detail') = false;
mp_support('bl_display_drvm2outcomes') = false;
mp_support('bl_display_drvstats') = false;
mp_support('bl_display_drvm2covcor') = false;

% Call Function
mp_cl_mt_xyz_of_s = ff_simu_stats(Phi_true_grp(:)/sum(Phi_true_grp,'all'), mp_cl_ar_xyz_of_s, m
```

```
xxx tb_outcomes: all stats xxx
```

OriginalVariableNames	married	y_all	age_ss	educ_ss	a_ss	ap_ss
{'mean' }	0.47501	103.28	47.129	0.303	293.66	300.95
{'unweighted_sum' }	1	2.8141e+08	4879	1	1.0976e+05	1.6416e+09
{'sd' }	0.49938	142.41	19.231	0.45956	553.53	559.41
{'coefofvar' }	1.0513	1.3788	0.40805	1.5167	1.8849	1.8588
{'gini' }	0.36718	0.53598	0.23101	0.61588	0.75241	0.75405
{'min' }	0	2.2124	19	0	0	0
{'max' }	1	2953.5	100	1	7837.6	9493.6
{'pYis0' }	0.52499	0	0	0.697	0.24932	0.23003
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	0.47501	1	1	0.303	0.75068	0.76997
{'pYisMINY' }	0.52499	7.0001e-05	0.02184	0.697	0.24932	0.23003
{'pYisMAXY' }	0.47501	2.1698e-08	0.00020326	0.303	0.00029723	2.1698e-08
{'p0_01' }	0	2.2144	19	0	0	0
{'p10' }	0	17.976	23	0	0	0
{'p25' }	0	31.97	31	0	0.049774	0.24814
{'p50' }	0	57.79	45	0	49.774	56.288
{'p75' }	1	116.27	62	1	341.4	374.62
{'p90' }	1	211.99	75	1	874.82	895.71
{'p99_99' }	1	1776.3	100	1	7837.6	8366.3
{'fl_cov_married' }	0.24938	17.09	4.3021e-15	0.026842	68.273	69.802
{'fl_cor_married' }	1	0.24031	4.4797e-16	0.11697	0.24699	0.24987
{'fl_cov_y_all' }	17.09	20281	-137.7	8.4575	30965	39517
{'fl_cor_y_all' }	0.24031	1	-0.050277	0.12923	0.39281	0.49603
{'fl_cov_age_ss' }	4.3021e-15	-137.7	369.84	5.6725e-16	3797.2	3646.6
{'fl_cor_age_ss' }	4.4797e-16	-0.050277	1	6.4185e-17	0.35672	0.33896
{'fl_cov_educ_ss' }	0.026842	8.4575	5.6725e-16	0.21119	29.474	30.251
{'fl_cor_educ_ss' }	0.11697	0.12923	6.4185e-17	1	0.11587	0.11767
{'fl_cov_a_ss' }	68.273	30965	3797.2	29.474	3.0639e+05	3.0688e+05
{'fl_cor_a_ss' }	0.24699	0.39281	0.35672	0.11587	1	0.99106
{'fl_cov_ap_ss' }	69.802	39517	3646.6	30.251	3.0688e+05	3.1294e+05
{'fl_cor_ap_ss' }	0.24987	0.49603	0.33896	0.11767	0.99106	1
{'fl_cov_MPC' }	-0.035371	-10.372	-3.0118	-0.0021083	-68.573	-70.724
{'fl_cor_MPC' }	-0.19636	-0.2019	-0.43417	-0.012718	-0.34344	-0.35048
{'fl_cov_Mass' }	-4.143e-05	-0.0066107	-0.0015285	-2.0235e-05	-0.029047	-0.029842
{'fl_cor_Mass' }	-0.3547	-0.19846	-0.33982	-0.18826	-0.22436	-0.22807
{'fl_cov_c_ss' }	11.435	6652.8	45.262	5.6158	22832	23647
{'fl_cor_c_ss' }	0.35346	0.72109	0.03633	0.18863	0.63671	0.6525
{'fl_cov_y_head_inc' }	3.2643	9543.4	-96.527	5.3751	25784	27699
{'fl_cor_y_head_inc' }	0.06965	0.71404	-0.053482	0.12463	0.49634	0.5276
{'fl_cov_y_spouse' }	13.826	10738	-41.168	3.0824	5181.1	11818
{'fl_cor_y_spouse' }	0.27683	0.75391	-0.021405	0.067067	0.093591	0.21123
{'fl_cov_yshr_nttxss'}	0.0261	11.347	-3.2272	0.0061509	11.625	15.254
{'fl_cor_yshr_nttxss'}	0.19927	0.3038	-0.63981	0.051031	0.080076	0.10397
{'fracByP0_01' }	0	3.934e-06	0.0088049	0	0	0
{'fracByP10' }	0	0.012941	0.047593	0	0	0
{'fracByP25' }	0	0.047631	0.14054	0	2.7188e-06	6.6027e-06
{'fracByP50' }	0	0.15748	0.34194	0	0.011768	0.011444
{'fracByP75' }	1	0.35671	0.62344	1	0.16776	0.17087

```
    {'fracByP90'        }            1       0.57868       0.82958             1       0.48239       0.46609
    {'fracByP99_99'     }            1       0.99804             1             1             1       0.99729
```

```
tb_dist_stats_all = mp_cl_mt_xyz_of_s('tb_outcomes');
```

Distributional Statistics Overall 18 to 64

Statistics overall distributionally for 18 to 64 year olds.

```
% construct input data
marital_grp = marital_ss(min_age:max_age, :, :, : ,: ,:);
y_all_grp = y_all(min_age:max_age, :, :, : ,: ,:);
age_ss_grp = age_ss(min_age:max_age, :, :, : ,: ,:);
educ_ss_grp = educ_ss(min_age:max_age, :, :, : ,: ,:);
a_ss_grp = a_ss(min_age:max_age, :, :, : ,: ,:);
ap_ss_grp = ap_ss(min_age:max_age, :, :, : ,: ,:);
mn_MPC_C_gain_share_check_grp = mn_MPC_C_gain_share_check(min_age:max_age, :, :, :, :, :);
Phi_true_grp = Phi_true_1(min_age:max_age, :, :, : ,: ,:);
c_ss_grp = c_ss(min_age:max_age, :, :, : ,: ,:);
y_head_inc_grp = y_head_inc(min_age:max_age, :, :, : ,: ,:);
y_spouse_inc_grp = y_spouse_inc(min_age:max_age, :, :, : ,: ,:);
yshr_nttxss_grp = yshr_nttxss(min_age:max_age, :, :, : ,: ,:);

mp_cl_ar_xyz_of_s = containers.Map('KeyType','char', 'ValueType','any');
mp_cl_ar_xyz_of_s('married') = {marital_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('y_all') = {y_all_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('age_ss') = {age_ss_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('educ_ss') = {educ_ss_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('a_ss') = {a_ss_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('ap_ss') = {ap_ss_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('MPC') = {mn_MPC_C_gain_share_check_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('Mass') = {Phi_true_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('c_ss') = {c_ss_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('y_head_inc') = {y_head_inc_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('y_spouse') = {y_spouse_inc_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('yshr_nttxss') = {yshr_nttxss_grp(:), zeros(1)};

mp_cl_ar_xyz_of_s('ar_st_y_name') = ["married", "y_all", "age_ss", "educ_ss", "a_ss", "ap_ss",

% controls
mp_support = containers.Map('KeyType','char', 'ValueType','any');
mp_support('ar_fl_percentiles') = [0.01 10 25 50 75 90 99.99];
mp_support('bl_display_final') = true;
mp_support('bl_display_detail') = false;
mp_support('bl_display_drvm2outcomes') = false;
mp_support('bl_display_drvstats') = false;
mp_support('bl_display_drvm2covcor') = false;

% Call Function
mp_cl_mt_xyz_of_s = ff_simu_stats(Phi_true_grp(:)/sum(Phi_true_grp,'all'), mp_cl_ar_xyz_of_s, m
```

```
xxx tb_outcomes: all stats xxx
    OriginalVariableNames       married       y_all        age_ss       educ_ss        a_ss         ap_ss
    _____________________    __________    _________    _________    __________    _________    _________
```

{'mean' }	0.47501	116.12	39.372	0.303	222.3	238.26
{'unweighted_sum' }	1	2.6557e+08	1909	1	1.0976e+05	1.4781e+09
{'sd' }	0.49938	153.3	13.105	0.45956	469.68	492.99
{'coefofvar' }	1.0513	1.3202	0.33285	1.5167	2.1128	2.0691
{'gini' }	0.36718	0.52475	0.18859	0.61588	0.79347	0.79134
{'min' }	0	2.2124	19	0	0	0
{'max' }	1	2953.5	64	1	7837.6	9493.6
{'pYis0' }	0.52499	0	0	0.697	0.29808	0.27134
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	0.47501	1	1	0.303	0.70192	0.72866
{'pYisMINY' }	0.52499	8.901e-05	0.027771	0.697	0.29808	0.27134
{'pYisMAXY' }	0.47501	2.759e-08	0.015675	0.303	0.00029833	2.759e-08
{'p0_01' }	0	2.2144	19	0	0	0
{'p10' }	0	20.522	22	0	0	0
{'p25' }	0	39.015	28	0	0	0
{'p50' }	0	68.425	38	0	10.751	18.999
{'p75' }	1	131.25	50	1	244.54	269.32
{'p90' }	1	234.18	58	1	688.07	739.71
{'p99_99' }	1	1819.8	64	1	7837.6	8372
{'fl_cov_married' }	0.24938	18.498	3.2058e-15	0.026842	59.87	62.866
{'fl_cor_married' }	1	0.24164	4.8985e-16	0.11697	0.25526	0.25536
{'fl_cov_y_all' }	18.498	23500	330.01	9.5182	35157	45079
{'fl_cor_y_all' }	0.24164	1	0.16427	0.13511	0.48829	0.59648
{'fl_cov_age_ss' }	3.2058e-15	330.01	171.75	3.0531e-16	2713.5	2845.3
{'fl_cor_age_ss' }	4.8985e-16	0.16427	1	5.0695e-17	0.44084	0.4404
{'fl_cov_educ_ss' }	0.026842	9.5182	3.0531e-16	0.21119	23.969	25.543
{'fl_cor_educ_ss' }	0.11697	0.13511	5.0695e-17	1	0.11105	0.11275
{'fl_cov_a_ss' }	59.87	35157	2713.5	23.969	2.206e+05	2.2882e+05
{'fl_cor_a_ss' }	0.25526	0.48829	0.44084	0.11105	1	0.9882
{'fl_cov_ap_ss' }	62.866	45079	2845.3	25.543	2.2882e+05	2.4304e+05
{'fl_cor_ap_ss' }	0.25536	0.59648	0.4404	0.11275	0.9882	1
{'fl_cov_MPC' }	-0.03743	-14.06	-2.895	-0.0011642	-61.699	-66.264
{'fl_cor_MPC' }	-0.197	-0.24106	-0.5806	-0.0066581	-0.34526	-0.35327
{'fl_cov_Mass' }	-4.7496e-05	-0.009153	-0.0012252	-2.2486e-05	-0.026946	-0.028879
{'fl_cor_Mass' }	-0.36993	-0.23223	-0.36362	-0.19031	-0.22314	-0.22783
{'fl_cov_c_ss' }	10.996	7680.8	117.62	5.6038	18187	19590
{'fl_cor_c_ss' }	0.33292	0.7575	0.13569	0.18436	0.58544	0.60076
{'fl_cov_y_head_inc' }	3.0418	10926	260.73	6.0493	28795	30899
{'fl_cor_y_head_inc' }	0.060298	0.70556	0.19695	0.13031	0.60689	0.62044
{'fl_cov_y_spouse' }	15.456	12574	69.281	3.4689	6362.2	14180
{'fl_cor_y_spouse' }	0.2843	0.7534	0.048559	0.069334	0.12442	0.26419
{'fl_cov_yshr_nttxss'}	0.0071917	3.9397	0.11991	0.0029923	7.8601	8.8924
{'fl_cor_yshr_nttxss'}	0.36165	0.64537	0.22976	0.16351	0.42026	0.45296
{'fracByP0_01' }	0	4.4495e-06	0.013402	0	0	0
{'fracByP10' }	0	0.011856	0.056893	0	0	0
{'fracByP25' }	0	0.050032	0.15748	0	0	0
{'fracByP50' }	0	0.1622	0.35932	0	0.0030006	0.0042077
{'fracByP75' }	1	0.3691	0.64274	1	0.13022	0.12833
{'fracByP90' }	1	0.58777	0.84608	1	0.42895	0.41869
{'fracByP99_99' }	1	0.9982	1	1	1	0.99654

```
tb_dist_stats_all_18to64 = mp_cl_mt_xyz_of_s('tb_outcomes');
```

Distributional Statistics By Kids Count

Various statistics, including MPC (of the first check) by Children Count

```
it_row_ctr = 0;
for it_ctr=1:mp_params('n_kidsgrid')
    display(['xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx']);
    display(['kids =' num2str(ar_kids(it_ctr))]);
    display(['xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx']);
```

```
% construct input data
marital_grp = marital_ss(min_age:max_age, :, :, : ,: ,it_ctr);
y_all_grp = y_all(min_age:max_age, :, :, : ,: ,it_ctr);
age_ss_grp = age_ss(min_age:max_age, :, :, : ,: ,it_ctr);
educ_ss_grp = educ_ss(min_age:max_age, :, :, : ,: ,it_ctr);
a_ss_grp = a_ss(min_age:max_age, :, :, : ,: ,it_ctr);
ap_ss_grp = ap_ss(min_age:max_age, :, :, : ,: ,it_ctr);
mn_MPC_C_gain_share_check_grp = mn_MPC_C_gain_share_check(min_age:max_age, :, :, :, :, it_c
Phi_true_grp = Phi_true_1(min_age:max_age, :, :, : ,: ,it_ctr);
c_ss_grp = c_ss(min_age:max_age, :, :, : ,: ,it_ctr);
y_head_inc_grp = y_head_inc(min_age:max_age, :, :, : ,: ,it_ctr);
y_spouse_inc_grp = y_spouse_inc(min_age:max_age, :, :, : ,: ,it_ctr);
yshr_nttxss_grp = yshr_nttxss(min_age:max_age, :, :, : ,: ,it_ctr);

mp_cl_ar_xyz_of_s = containers.Map('KeyType','char', 'ValueType','any');
mp_cl_ar_xyz_of_s('married') = {marital_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('y_all') = {y_all_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('age_ss') = {age_ss_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('educ_ss') = {educ_ss_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('a_ss') = {a_ss_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('ap_ss') = {ap_ss_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('MPC') = {mn_MPC_C_gain_share_check_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('Mass') = {Phi_true_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('c_ss') = {c_ss_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('y_head_inc') = {y_head_inc_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('y_spouse') = {y_spouse_inc_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('yshr_nttxss') = {yshr_nttxss_grp(:), zeros(1)};

mp_cl_ar_xyz_of_s('ar_st_y_name') = ["married", "y_all", "age_ss", "educ_ss", "a_ss", "ap_s

% controls
mp_support = containers.Map('KeyType','char', 'ValueType','any');
mp_support('ar_fl_percentiles') = [0.01 10 25 50 75 90 99.99];
mp_support('bl_display_final') = true;
mp_support('bl_display_detail') = false;
mp_support('bl_display_drvm2outcomes') = false;
mp_support('bl_display_drvstats') = false;
mp_support('bl_display_drvm2covcor') = false;

% Call Function
mp_cl_mt_xyz_of_s = ff_simu_stats(Phi_true_grp(:)/sum(Phi_true_grp,'all'), mp_cl_ar_xyz_of_

it_kids = ar_kids(it_ctr);

tb_dist_stats = mp_cl_mt_xyz_of_s('tb_outcomes');

fl_married_mean = tb_dist_stats{"married", "mean"};

fl_age_mean = tb_dist_stats{"age_ss", "mean"};
fl_age_p50 = tb_dist_stats{"age_ss", "p50"};

fl_educ_mean = tb_dist_stats{"educ_ss", "mean"};
```

```
    fl_a_mean = tb_dist_stats{"a_ss", "mean"};
    fl_a_p50 = tb_dist_stats{"a_ss", "p50"};

    fl_ap_mean = tb_dist_stats{"ap_ss", "mean"};
    fl_ap_p50 = tb_dist_stats{"ap_ss", "p50"};

    fl_y_all_mean = tb_dist_stats{"y_all", "mean"};
    fl_y_all_p50 = tb_dist_stats{"y_all", "p50"};

    fl_mpc_mean = tb_dist_stats{"MPC", "mean"};
    fl_mpc_p50 = tb_dist_stats{"MPC", "p50"};

    fl_mass = tb_dist_stats{"Mass", "unweighted_sum"};

    fl_c_ss_mean = tb_dist_stats{"c_ss", "mean"};
    fl_c_ss_p50 = tb_dist_stats{"c_ss", "p50"};

    fl_y_head_inc_mean = tb_dist_stats{"y_head_inc", "mean"};
    fl_y_spouse_mean = tb_dist_stats{"y_spouse", "mean"};

    ar_store_stats = [it_kids, fl_married_mean, ...
        fl_age_mean, fl_age_p50, fl_educ_mean, ...
        fl_a_mean, fl_a_p50, fl_ap_mean, fl_ap_p50, ...
        fl_y_all_mean, fl_y_all_p50, ...
        fl_mpc_mean, fl_mpc_p50, ...
        fl_mass, ...
        fl_c_ss_mean, fl_c_ss_p50, ...
        fl_y_head_inc_mean, fl_y_spouse_mean];

    it_row_ctr = it_row_ctr + 1;

    if (it_row_ctr>1)
        mt_store_stats_by_k = [mt_store_stats_by_k;ar_store_stats];
    else
        mt_store_stats_by_k = [ar_store_stats];
    end
end
```

```
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
kids =0
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx
```

OriginalVariableNames	married	y_all	age_ss	educ_ss	a_ss	ap_ss
{'mean' }	0.34092	115.98	42.81	0.29837	298.06	319.68
{'unweighted_sum' }	1	6.8544e+07	1909	1	1.0976e+05	3.0466e+08
{'sd' }	0.47402	158.54	14.55	0.45754	569.46	597.8
{'coefofvar' }	1.3904	1.367	0.33987	1.5335	1.9106	1.87
{'gini' }	0.56028	0.53348	0.18997	0.62263	0.75356	0.74949
{'min' }	0	2.2124	19	0	0	0
{'max' }	1	2953.5	64	1	7837.6	9493.6
{'pYis0' }	0.65908	0	0	0.70163	0.17895	0.13972
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	0.34092	1	1	0.29837	0.82105	0.86028
{'pYisMINY' }	0.65908	0.00013001	0.038791	0.70163	0.17895	0.13972
{'pYisMAXY' }	0.34092	5.73e-08	0.029551	0.29837	0.00049857	5.73e-08

{'p0_01' }	0	2.2124	19	0	0	0
{'p10' }	0	20.098	21	0	0	0
{'p25' }	0	34.14	29	0	0.39819	1.3439
{'p50' }	0	64.817	45	0	49.774	56.948
{'p75' }	1	136.39	56	1	341.4	387.83
{'p90' }	1	223.47	61	1	874.82	970.12
{'p99_99' }	1	1863.6	64	1	7837.6	8384.2
{'fl_cov_married' }	0.22469	21.173	0.41952	0.027901	91.283	95.902
{'fl_cor_married' }	1	0.28174	0.060827	0.12864	0.33817	0.33844
{'fl_cov_y_all' }	21.173	25135	383.99	8.839	51766	62952
{'fl_cor_y_all' }	0.28174	1	0.16646	0.12185	0.57338	0.66421
{'fl_cov_age_ss' }	0.41952	383.99	211.7	-0.40705	3514.9	3676.8
{'fl_cor_age_ss' }	0.060827	0.16646	1	-0.061144	0.42421	0.42271
{'fl_cov_educ_ss' }	0.027901	8.839	-0.40705	0.20934	26.426	28.241
{'fl_cor_educ_ss' }	0.12864	0.12185	-0.061144	1	0.10142	0.10325
{'fl_cov_a_ss' }	91.283	51766	3514.9	26.426	3.2429e+05	3.3756e+05
{'fl_cor_a_ss' }	0.33817	0.57338	0.42421	0.10142	1	0.9916
{'fl_cov_ap_ss' }	95.902	62952	3676.8	28.241	3.3756e+05	3.5737e+05
{'fl_cor_ap_ss' }	0.33844	0.66421	0.42271	0.10325	0.9916	1
{'fl_cov_MPC' }	-0.014867	-9.6335	-2.7819	0.015351	-47.139	-50.635
{'fl_cor_MPC' }	-0.10212	-0.19783	-0.62249	0.10924	-0.26951	-0.27577
{'fl_cov_Mass' }	-5.1512e-05	-0.01347	-0.0023766	-2.8801e-05	-0.052379	-0.056134
{'fl_cor_Mass' }	-0.33041	-0.25833	-0.49663	-0.19139	-0.27966	-0.2855
{'fl_cov_c_ss' }	11.37	7637.6	128.66	4.8459	25605	27434
{'fl_cor_c_ss' }	0.38334	0.7699	0.14132	0.16926	0.71858	0.73341
{'fl_cov_y_head_inc' }	4.2393	12041	311.2	5.5063	42805	45832
{'fl_cor_y_head_inc' }	0.08425	0.71545	0.20149	0.11337	0.70812	0.72224
{'fl_cov_y_spouse' }	16.934	13095	72.786	3.3327	8960.9	17120
{'fl_cor_y_spouse' }	0.32183	0.74406	0.045065	0.065617	0.14176	0.25799
{'fl_cov_yshr_nttxss'}	0.0073863	4.1297	0.14841	0.0026534	11.632	12.833
{'fl_cor_yshr_nttxss'}	0.37609	0.62869	0.24619	0.13997	0.49302	0.51811
{'fracByP0_01' }	0	2.4802e-06	0.017216	0	0	0
{'fracByP10' }	0	0.01109	0.047317	0	0	0
{'fracByP25' }	0	0.04506	0.14043	0	7.7244e-05	0.00018248
{'fracByP50' }	0	0.15617	0.35779	0	0.014606	0.013584
{'fracByP75' }	1	0.36487	0.66951	1	0.15612	0.16165
{'fracByP90' }	1	0.58434	0.86922	1	0.45399	0.46083
{'fracByP99_99' }	1	0.99814	1	1	1	0.99757

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
kids =1
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	married	y_all	age_ss	educ_ss	a_ss	ap_ss
{'mean' }	0.48303	115.67	37.46	0.31392	187.87	202.24
{'unweighted_sum' }	1	6.398e+07	1909	1	1.0976e+05	2.9898e+08
{'sd' }	0.49971	155.18	12.413	0.46408	414.14	434.2
{'coefofvar' }	1.0345	1.3416	0.33137	1.4784	2.2044	2.1469
{'gini' }	0.35621	0.52846	0.18779	0.59992	0.8176	0.81398
{'min' }	0	2.2124	19	0	0	0
{'max' }	1	2715.2	64	1	7837.6	9259.3
{'pYis0' }	0.51697	0	0	0.68608	0.33875	0.31043
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	0.48303	1	1	0.31392	0.66125	0.68957
{'pYisMINY' }	0.51697	6.0636e-05	0.032554	0.68608	0.33875	0.31043
{'pYisMAXY' }	0.48303	3.5845e-08	0.0061116	0.31392	0.00020938	3.5845e-08
{'p0_01' }	0	2.2144	19	0	0	0
{'p10' }	0	19.841	21	0	0	0
{'p25' }	0	39.015	26	0	0	0
{'p50' }	0	68.872	37	0	3.1855	6.2217
{'p75' }	1	126.92	47	1	203.87	226.21
{'p90' }	1	233.33	55	1	605.6	663.97
{'p99_99' }	1	1715.3	64	1	7837.6	8315.1
{'fl_cov_married' }	0.24971	19.875	0.69339	0.029149	71.204	75.76

{'fl_cor_married' }	1	0.25631	0.11178	0.12569	0.34407	0.34916
{'fl_cov_y_all' }	19.875	24080	367.53	9.6978	29384	39663
{'fl_cor_y_all' }	0.25631	1	0.1908	0.13466	0.45724	0.58866
{'fl_cov_age_ss' }	0.69339	367.53	154.09	0.15644	2245.5	2348.9
{'fl_cor_age_ss' }	0.11178	0.1908	1	0.027156	0.4368	0.43581
{'fl_cov_educ_ss' }	0.029149	9.6978	0.15644	0.21537	25.018	26.73
{'fl_cor_educ_ss' }	0.12569	0.13466	0.027156	1	0.13017	0.13265
{'fl_cov_a_ss' }	71.204	29384	2245.5	25.018	1.7151e+05	1.7688e+05
{'fl_cor_a_ss' }	0.34407	0.45724	0.4368	0.13017	1	0.98364
{'fl_cov_ap_ss' }	75.76	39663	2348.9	26.73	1.7688e+05	1.8853e+05
{'fl_cor_ap_ss' }	0.34916	0.58866	0.43581	0.13265	0.98364	1
{'fl_cov_MPC' }	-0.07261	-17.864	-2.8261	-0.0045827	-59.632	-64.279
{'fl_cor_MPC' }	-0.38629	-0.30606	-0.60527	-0.026252	-0.3828	-0.39357
{'fl_cov_Mass' }	-2.4465e-05	-0.0058141	-0.00084164	-1.561e-05	-0.015921	-0.017155
{'fl_cor_Mass' }	-0.3542	-0.27107	-0.49053	-0.24335	-0.27812	-0.28584
{'fl_cov_c_ss' }	10.476	7755.9	174.45	5.6033	16706	18095
{'fl_cor_c_ss' }	0.3144	0.74956	0.21076	0.18107	0.60496	0.62497
{'fl_cov_y_head_inc' }	3.6296	10439	253.75	6.0384	22781	24519
{'fl_cor_y_head_inc' }	0.073927	0.68472	0.20806	0.13243	0.55988	0.57475
{'fl_cov_y_spouse' }	16.246	13640	113.78	3.6594	6603	15144
{'fl_cor_y_spouse' }	0.28674	0.77532	0.080846	0.069549	0.14063	0.30762
{'fl_cov_yshr_nttxss'}	0.0076474	3.9803	0.13539	0.0030954	6.6785	7.6927
{'fl_cor_yshr_nttxss'}	0.38302	0.64198	0.27298	0.16694	0.40361	0.44342
{'fracByP0_01' }	0	4.517e-06	0.016512	0	0	0
{'fracByP10' }	0	0.011734	0.055462	0	0	0
{'fracByP25' }	0	0.049988	0.1535	0	0	0
{'fracByP50' }	0	0.16077	0.37529	0	0.0012495	0.0016587
{'fracByP75' }	1	0.36634	0.6393	1	0.094912	0.094692
{'fracByP90' }	1	0.58205	0.85347	1	0.40102	0.3981
{'fracByP99_99' }	1	0.99821	1	1	1	0.99624

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
kids =2
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	married	y_all	age_ss	educ_ss	a_ss	ap_ss
{'mean' }	0.58436	117.03	35.807	0.30789	149.84	160.71
{'unweighted_sum' }	1	6.0837e+07	1909	1	1.0976e+05	2.9517e+08
{'sd' }	0.49283	150.86	10.518	0.46162	330.74	346.24
{'coefofvar' }	0.84337	1.2891	0.29375	1.4993	2.2072	2.1545
{'gini' }	0.22818	0.51878	0.16465	0.60873	0.82746	0.82889
{'min' }	0	2.2124	19	0	0	0
{'max' }	1	2551.1	64	1	7837.6	9093.5
{'pYis0' }	0.41564	0	0	0.69211	0.42718	0.42053
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	0.58436	1	1	0.30789	0.57282	0.57947
{'pYisMINY' }	0.41564	5.4041e-05	0.014906	0.69211	0.42718	0.42053
{'pYisMAXY' }	0.58436	1.6597e-08	0.0019534	0.30789	9.9618e-05	3.0618e-08
{'p0_01' }	0	2.2144	19	0	0	0
{'p10' }	0	20.69	23	0	0	0
{'p25' }	0	42.077	27	0	0	0
{'p50' }	1	70.942	35	0	1.3439	1.8791
{'p75' }	1	126.24	43	1	167.99	186.59
{'p90' }	1	241.32	51	1	460.95	515.19
{'p99_99' }	1	1643.6	64	1	7410.2	8075
{'fl_cov_married' }	0.24288	17.104	0.51579	0.025827	53.705	57.083
{'fl_cor_married' }	1	0.23006	0.099501	0.11352	0.32948	0.33452
{'fl_cov_y_all' }	17.104	22758	283.93	10.426	19270	28501
{'fl_cor_y_all' }	0.23006	1	0.17894	0.14972	0.38621	0.54564
{'fl_cov_age_ss' }	0.51579	283.93	110.63	0.45675	1434.1	1498.2
{'fl_cor_age_ss' }	0.099501	0.17894	1	0.094068	0.41223	0.41138
{'fl_cov_educ_ss' }	0.025827	10.426	0.45675	0.21309	23.024	24.46
{'fl_cor_educ_ss' }	0.11352	0.14972	0.094068	1	0.1508	0.15304
{'fl_cov_a_ss' }	53.705	19270	1434.1	23.024	1.0939e+05	1.1173e+05

{'fl_cor_a_ss' }	0.32948	0.38621	0.41223	0.1508	1	0.97571
{'fl_cov_ap_ss' }	57.083	28501	1498.2	24.46	1.1173e+05	1.1989e+05
{'fl_cor_ap_ss' }	0.33452	0.54564	0.41138	0.15304	0.97571	1
{'fl_cov_MPC' }	-0.10693	-20.248	-2.2952	-0.021379	-61.672	-66.311
{'fl_cor_MPC' }	-0.52297	-0.32352	-0.52597	-0.11163	-0.44945	-0.46162
{'fl_cov_Mass' }	-3.9512e-05	-0.0068984	-0.0006685	-2.2347e-05	-0.016583	-0.017846
{'fl_cor_Mass' }	-0.47566	-0.2713	-0.37707	-0.28721	-0.29748	-0.30579
{'fl_cov_c_ss' }	9.5715	7817.1	150.45	6.4316	12133	13221
{'fl_cor_c_ss' }	0.28057	0.74858	0.20664	0.20128	0.52994	0.55163
{'fl_cov_y_head_inc' }	2.931	9821.6	189.92	6.6626	14664	15821
{'fl_cor_y_head_inc' }	0.06236	0.68266	0.18933	0.15134	0.4649	0.47913
{'fl_cov_y_spouse' }	14.173	12936	94.014	3.7637	4605.6	12680
{'fl_cor_y_spouse' }	0.26026	0.77604	0.080888	0.073786	0.12602	0.3314
{'fl_cov_yshr_nttxss'}	0.0069921	3.819	0.10265	0.0033885	4.4916	5.4006
{'fl_cor_yshr_nttxss'}	0.36993	0.66007	0.25445	0.19139	0.3541	0.4067
{'fracByP0_01' }	0	2.0979e-06	0.0079094	0	0	0
{'fracByP10' }	0	0.012646	0.075143	0	0	0
{'fracByP25' }	0	0.053158	0.17417	0	0	0
{'fracByP50' }	1	0.16717	0.40471	0	0.00050503	0.0003587
{'fracByP75' }	1	0.37182	0.65078	1	0.088139	0.089
{'fracByP90' }	1	0.58737	0.85987	1	0.38675	0.40134
{'fracByP99_99' }	1	0.99832	1	1	0.99479	0.99483

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
kids =3
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	married	y_all	age_ss	educ_ss	a_ss	ap_ss
{'mean' }	0.69032	118.05	35.356	0.30365	128.25	136.95
{'unweighted_sum' }	1	5.7593e+07	1909	1	1.0976e+05	2.9194e+08
{'sd' }	0.46236	144.57	9.1314	0.45983	268.26	280.29
{'coefofvar' }	0.66978	1.2247	0.25827	1.5143	2.0917	2.0467
{'gini' }	0.12198	0.50732	0.14344	0.61493	0.81314	0.81613
{'min' }	0	2.2124	19	0	0	0
{'max' }	1	2381.6	64	1	7837.6	8932.7
{'pYis0' }	0.30968	0	0	0.69635	0.44863	0.43473
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	0.69032	1	1	0.30365	0.55137	0.56527
{'pYisMINY' }	0.30968	4.7168e-05	0.007718	0.69635	0.44863	0.43473
{'pYisMAXY' }	0.69032	5.7973e-09	0.00070368	0.30365	4.3483e-05	1.1305e-08
{'p0_01' }	0	2.3868	19	0	0	0
{'p10' }	0	22.604	24	0	0	0
{'p25' }	0	42.502	28	0	0	0
{'p50' }	1	71.714	34	0	1.3439	1.6622
{'p75' }	1	128.24	42	1	167.99	181.35
{'p90' }	1	250.48	48	1	398.19	434.76
{'p99_99' }	1	1543.3	64	1	5855.8	6199.5
{'fl_cov_married' }	0.21378	13.186	0.39867	0.02286	36.679	38.868
{'fl_cor_married' }	1	0.19725	0.094427	0.10752	0.29572	0.29991
{'fl_cov_y_all' }	13.186	20902	219.53	10.506	12864	20801
{'fl_cor_y_all' }	0.19725	1	0.16629	0.15803	0.33168	0.51332
{'fl_cov_age_ss' }	0.39867	219.53	83.382	0.55101	923.55	965.23
{'fl_cor_age_ss' }	0.094427	0.16629	1	0.13123	0.37703	0.37712
{'fl_cov_educ_ss' }	0.02286	10.506	0.55101	0.21145	19.802	20.979
{'fl_cor_educ_ss' }	0.10752	0.15803	0.13123	1	0.16053	0.16277
{'fl_cov_a_ss' }	36.679	12864	923.55	19.802	71962	72734
{'fl_cor_a_ss' }	0.29572	0.33168	0.37703	0.16053	1	0.96733
{'fl_cov_ap_ss' }	38.868	20801	965.23	20.979	72734	78564
{'fl_cor_ap_ss' }	0.29991	0.51332	0.37712	0.16277	0.96733	1
{'fl_cov_MPC' }	-0.10439	-17.728	-1.6797	-0.026061	-53.949	-57.857
{'fl_cor_MPC' }	-0.54198	-0.29438	-0.4416	-0.13606	-0.48279	-0.49553
{'fl_cov_Mass' }	-1.5797e-05	-0.0031736	-0.00028175	-1.162e-05	-0.0072608	-0.0078029
{'fl_cor_Mass' }	-0.40387	-0.25949	-0.36474	-0.29873	-0.31996	-0.32908
{'fl_cov_c_ss' }	7.8051	7726.4	124.28	6.7512	8896.2	9767.8

{'fl_cor_c_ss'}	0.2402	0.76044	0.19366	0.20891	0.47188	0.49587
{'fl_cov_y_head_inc'}	2.2809	9538.5	145.72	6.9385	10005	10857
{'fl_cor_y_head_inc'}	0.052325	0.6998	0.16927	0.16005	0.39559	0.41086
{'fl_cov_y_spouse'}	10.905	11363	73.805	3.5671	2858.8	9943.8
{'fl_cor_y_spouse'}	0.22786	0.75936	0.078088	0.074947	0.10296	0.34275
{'fl_cov_yshr_nttxss'}	0.005747	3.629	0.079852	0.0034216	3.0753	3.9142
{'fl_cor_yshr_nttxss'}	0.33898	0.68456	0.23849	0.20293	0.31265	0.38085
{'fracByP0_01'}	0	2.4558e-06	0.0041476	0	0	0
{'fracByP10'}	0	0.013729	0.072166	0	0	0
{'fracByP25'}	0	0.057324	0.18337	0	0	0
{'fracByP50'}	1	0.1739	0.39789	0	0.00046567	0.000343
{'fracByP75'}	1	0.37833	0.69228	1	0.12456	0.11328
{'fracByP90'}	1	0.59673	0.86	1	0.43847	0.43254
{'fracByP99_99'}	1	0.99843	1	1	0.99498	0.9945

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
kids =4
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	married	y_all	age_ss	educ_ss	a_ss	ap_ss
{'mean'}	0.78724	112.65	35.383	0.29511	106.78	111.23
{'unweighted_sum'}	1	5.2443e+07	1909	1	1.0976e+05	2.8783e+08
{'sd'}	0.40926	127.67	7.9178	0.45609	213.66	220.33
{'coefofvar'}	0.51987	1.1333	0.22378	1.5455	2.0009	1.9808
{'gini'}	0.054374	0.49042	0.12297	0.62738	0.79707	0.80478
{'min'}	0	2.2124	19	0	0	0
{'max'}	1	2113.2	64	1	7837.6	8704.7
{'pYis0'}	0.21276	0	0	0.70489	0.46546	0.45629
{'pYls0'}	0	0	0	0	0	0
{'pYgr0'}	0.78724	1	1	0.29511	0.53454	0.54371
{'pYisMINY'}	0.21276	2.4224e-05	0.0035072	0.70489	0.46546	0.45629
{'pYisMAXY'}	0.78724	3.0679e-09	0.00027556	0.29511	1.8057e-05	3.0679e-09
{'p0_01'}	0	2.5519	19	0	0	0
{'p10'}	0	24.544	26	0	0	0
{'p25'}	1	42.086	29	0	0	0
{'p50'}	1	68.166	35	0	1.3439	1.4864
{'p75'}	1	129.17	41	1	136.58	149.26
{'p90'}	1	260.97	46	1	341.4	333.03
{'p99_99'}	1	1383.3	64	1	4535.6	4810.8
{'fl_cov_married'}	0.16749	7.882	0.25239	0.018555	21.492	22.18
{'fl_cor_married'}	1	0.15085	0.077888	0.099404	0.24578	0.24598
{'fl_cov_y_all'}	7.882	16300	156.27	9.8773	8181.8	13076
{'fl_cor_y_all'}	0.15085	1	0.15459	0.16963	0.29994	0.46486
{'fl_cov_age_ss'}	0.25239	156.27	62.692	0.61699	597.07	620.14
{'fl_cor_age_ss'}	0.077888	0.15459	1	0.17085	0.35293	0.35548
{'fl_cov_educ_ss'}	0.018555	9.8773	0.61699	0.20802	16.313	17.029
{'fl_cor_educ_ss'}	0.099404	0.16963	0.17085	1	0.1674	0.16946
{'fl_cov_a_ss'}	21.492	8181.8	597.07	16.313	45652	45556
{'fl_cor_a_ss'}	0.24578	0.29994	0.35293	0.1674	1	0.96772
{'fl_cov_ap_ss'}	22.18	13076	620.14	17.029	45556	48545
{'fl_cor_ap_ss'}	0.24598	0.46486	0.35548	0.16946	0.96772	1
{'fl_cov_MPC'}	-0.076892	-14.007	-1.2838	-0.022888	-45.727	-47.982
{'fl_cor_MPC'}	-0.45306	-0.26455	-0.39097	-0.12101	-0.51608	-0.52515
{'fl_cov_Mass'}	-4.3357e-06	-0.0015758	-0.00013809	-6.9134e-06	-0.0038065	-0.0040086
{'fl_cor_Mass'}	-0.1927	-0.2245	-0.31722	-0.27571	-0.32405	-0.33094
{'fl_cov_c_ss'}	5.2998	7339	95.194	6.7441	6247.1	6825.1
{'fl_cor_c_ss'}	0.1842	0.81764	0.17101	0.21033	0.41588	0.44062
{'fl_cov_y_head_inc'}	1.5608	9306.4	111.47	7.1207	6842.4	7468.7
{'fl_cor_y_head_inc'}	0.0406	0.776	0.14987	0.1662	0.34092	0.36087
{'fl_cov_y_spouse'}	6.3212	6993.6	44.801	2.7567	1339.5	5607.6
{'fl_cor_y_spouse'}	0.19141	0.67887	0.070123	0.074905	0.077694	0.31541
{'fl_cov_yshr_nttxss'}	0.0038591	3.2776	0.06041	0.0033834	2.0186	2.6635
{'fl_cor_yshr_nttxss'}	0.265	0.72147	0.21442	0.20848	0.2655	0.33973
{'fracByP0_01'}	0	2.5955e-06	0.0018833	0	0	0

{'fracByP10' }	0	0.015562	0.08684	0	0	0
{'fracByP25' }	1	0.060397	0.18322	0	0	0
{'fracByP50' }	1	0.18077	0.44948	0	0.00035192	0.00022153
{'fracByP75' }	1	0.39132	0.71178	1	0.13909	0.14153
{'fracByP90' }	1	0.62069	0.86506	1	0.50102	0.45454
{'fracByP99_99' }	1	0.99853	1	1	0.99492	0.99432

Distributional Statistics By Marital Status and Kids Count

Various statistics, including MPC (of the first check) by Marital Status and Kids COunt

```
it_row_ctr = 0;
for it_marry_ctr=1:mp_params('n_marriedgrid')

    display(['']);
    display(['']);
    display(['--------------------------------']);
    display(['--------------------------------']);
    display(['--------------------------------']);
    display(['--------------------------------']);
    display(['xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx']);
    display(['Marital =' num2str(ar_marital(it_marry_ctr))]);
    display(['xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx']);
    display(['--------------------------------']);
    display(['--------------------------------']);

    for it_kids_ctr=1:mp_params('n_kidsgrid')
        display(['xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx']);
        display(['Marital =' num2str(ar_marital(it_marry_ctr)) ' and kids =' num2str(ar_kids(it
        display(['xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx']);

        % construct input data
        y_all_grp = y_all(min_age:max_age, :, :, : ,it_marry_ctr ,it_ctr);
        age_ss_grp = age_ss(min_age:max_age, :, :, : ,it_marry_ctr, it_kids_ctr);
        educ_ss_grp = educ_ss(min_age:max_age, :, :, : ,it_marry_ctr, it_kids_ctr);
        a_ss_grp = a_ss(min_age:max_age, :, :, : ,it_marry_ctr, it_kids_ctr);
        ap_ss_grp = ap_ss(min_age:max_age, :, :, : ,it_marry_ctr, it_kids_ctr);
        mn_MPC_C_gain_share_check_grp = mn_MPC_C_gain_share_check(min_age:max_age, :, :, :, it_
        Phi_true_grp = Phi_true_1(min_age:max_age, :, :, : ,it_marry_ctr, it_kids_ctr);
        c_ss_grp = c_ss(min_age:max_age, :, :, : ,it_marry_ctr, it_kids_ctr);
        y_head_inc_grp = y_head_inc(min_age:max_age, :, :, : ,it_marry_ctr, it_kids_ctr);
        y_spouse_inc_grp = y_spouse_inc(min_age:max_age, :, :, : ,it_marry_ctr, it_kids_ctr);
        yshr_nttxss_grp = yshr_nttxss(min_age:max_age, :, :, : ,it_marry_ctr, it_kids_ctr);

        mp_cl_ar_xyz_of_s = containers.Map('KeyType','char', 'ValueType','any');
        mp_cl_ar_xyz_of_s('y_all') = {y_all_grp(:), zeros(1)};
        mp_cl_ar_xyz_of_s('age_ss') = {age_ss_grp(:), zeros(1)};
        mp_cl_ar_xyz_of_s('educ_ss') = {educ_ss_grp(:), zeros(1)};
        mp_cl_ar_xyz_of_s('a_ss') = {a_ss_grp(:), zeros(1)};
        mp_cl_ar_xyz_of_s('ap_ss') = {ap_ss_grp(:), zeros(1)};
        mp_cl_ar_xyz_of_s('MPC') = {mn_MPC_C_gain_share_check_grp(:), zeros(1)};
        mp_cl_ar_xyz_of_s('Mass') = {Phi_true_grp(:), zeros(1)};
        mp_cl_ar_xyz_of_s('c_ss') = {c_ss_grp(:), zeros(1)};
        mp_cl_ar_xyz_of_s('y_head_inc') = {y_head_inc_grp(:), zeros(1)};
        mp_cl_ar_xyz_of_s('y_spouse') = {y_spouse_inc_grp(:), zeros(1)};
```

```
        mp_cl_ar_xyz_of_s('yshr_nttxss') = {yshr_nttxss_grp(:), zeros(1)};

        mp_cl_ar_xyz_of_s('ar_st_y_name') = ["y_all", "age_ss", "educ_ss", "a_ss", "ap_ss", "MP

        % controls
        mp_support = containers.Map('KeyType','char', 'ValueType','any');
        mp_support('ar_fl_percentiles') = [0.01 10 25 50 75 90 99.99];
        mp_support('bl_display_final') = true;
        mp_support('bl_display_detail') = false;
        mp_support('bl_display_drvm2outcomes') = false;
        mp_support('bl_display_drvstats') = false;
        mp_support('bl_display_drvm2covcor') = false;

        % Call Function
        mp_cl_mt_xyz_of_s = ff_simu_stats(Phi_true_grp(:)/sum(Phi_true_grp,'all'), mp_cl_ar_xyz

        it_marital = ar_marital(it_marry_ctr);
        it_kids = ar_kids(it_kids_ctr);

        tb_dist_stats = mp_cl_mt_xyz_of_s('tb_outcomes');
        fl_age_mean = tb_dist_stats{"age_ss", "mean"};
        fl_age_p50 = tb_dist_stats{"age_ss", "p50"};

        fl_educ_mean = tb_dist_stats{"educ_ss", "mean"};

        fl_a_mean = tb_dist_stats{"a_ss", "mean"};
        fl_a_p50 = tb_dist_stats{"a_ss", "p50"};

        fl_ap_mean = tb_dist_stats{"ap_ss", "mean"};
        fl_ap_p50 = tb_dist_stats{"ap_ss", "p50"};

        fl_y_all_mean = tb_dist_stats{"y_all", "mean"};
        fl_y_all_p50 = tb_dist_stats{"y_all", "p50"};

        fl_mpc_mean = tb_dist_stats{"MPC", "mean"};
        fl_mpc_p50 = tb_dist_stats{"MPC", "p50"};

        fl_mass = tb_dist_stats{"Mass", "unweighted_sum"};

        fl_c_ss_mean = tb_dist_stats{"c_ss", "mean"};
        fl_c_ss_p50 = tb_dist_stats{"c_ss", "p50"};

        fl_y_head_inc_mean = tb_dist_stats{"y_head_inc", "mean"};
        fl_y_spouse_mean = tb_dist_stats{"y_spouse", "mean"};

        ar_store_stats = [it_marital, it_kids, ...
            fl_age_mean, fl_age_p50, fl_educ_mean, ...
            fl_a_mean, fl_a_p50, fl_ap_mean, fl_ap_p50, ...
            fl_y_all_mean, fl_y_all_p50, ...
            fl_mpc_mean, fl_mpc_p50, ...
            fl_mass, ...
            fl_c_ss_mean, fl_c_ss_p50, ...
            fl_y_head_inc_mean, fl_y_spouse_mean];
```

```
        it_row_ctr = it_row_ctr + 1;

        if (it_row_ctr>1)
            mt_store_stats_by_mk = [mt_store_stats_by_mk;ar_store_stats];
        else
            mt_store_stats_by_mk = [ar_store_stats];
        end
    end
end
```

```
  0×0 empty char array
  0×0 empty char array
------------------------------
------------------------------
------------------------------
------------------------------
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
------------------------------
------------------------------
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0 and kids =0
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx
```

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	83.85	42.174	0.25604	159.56	174.17	0.23065
{'unweighted_sum' }	9.4577e+06	1909	1	1.0976e+05	7.1834e+07	1861.4
{'sd' }	102.21	14.196	0.43644	396.11	422.9	0.33439
{'coefofvar' }	1.219	0.33661	1.7046	2.4825	2.4281	1.4498
{'gini' }	0.50854	0.1892	0.68372	0.79871	0.79576	0.63375
{'min' }	2.2124	19	0	0	0	7.2987e-07
{'max' }	1414.1	64	1	7837.6	8384.3	1
{'pYis0' }	0	0	0.74396	0.21555	0.17533	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.25604	0.78445	0.82467	1
{'pYisMINY' }	0.00019726	0.036566	0.74396	0.21555	0.17533	1.7783e-06
{'pYisMAXY' }	2.6208e-09	0.024953	0.25604	0.000307	9.5654e-08	0.0020688
{'p0_01' }	2.2124	19	0	0	0	8.0103e-07
{'p10' }	14.915	22	0	0	0	0.040203
{'p25' }	22.268	29	0	0.39819	0.40924	0.045917
{'p50' }	54.865	44	0	17.072	21.565	0.056521
{'p75' }	103.93	55	1	167.99	179.5	0.16699
{'p90' }	174.28	61	1	460.95	500.47	0.9386
{'p99_99' }	1387.5	64	1	7837.6	8369.4	1
{'fl_cov_y_all' }	10447	247.57	4.7014	32001	34663	-7.2988
{'fl_cor_y_all' }	1	0.17061	0.10539	0.79039	0.8019	-0.21355
{'fl_cov_age_ss' }	247.57	201.53	-0.25515	2164.6	2316.1	-3.0535
{'fl_cor_age_ss' }	0.17061	1	-0.041181	0.38492	0.38578	-0.64324
{'fl_cov_educ_ss' }	4.7014	-0.25515	0.19048	11.461	12.415	0.017442
{'fl_cor_educ_ss' }	0.10539	-0.041181	1	0.066293	0.067265	0.11952
{'fl_cov_a_ss' }	32001	2164.6	11.461	1.569e+05	1.6745e+05	-28.801
{'fl_cor_a_ss' }	0.79039	0.38492	0.066293	1	0.99963	-0.21744
{'fl_cov_ap_ss' }	34663	2316.1	12.415	1.6745e+05	1.7885e+05	-31.501
{'fl_cor_ap_ss' }	0.8019	0.38578	0.067265	0.99963	1	-0.22276
{'fl_cov_MPC' }	-7.2988	-3.0535	0.017442	-28.801	-31.501	0.11182
{'fl_cor_MPC' }	-0.21355	-0.64324	0.11952	-0.21744	-0.22276	1
{'fl_cov_Mass' }	-0.009689	-0.0028864	-3.5956e-05	-0.03304	-0.03601	5.2918e-05
{'fl_cor_Mass' }	-0.25863	-0.55473	-0.22477	-0.22757	-0.23232	0.43176
{'fl_cov_c_ss' }	5209.6	36.779	2.6073	13510	14672	-2.8764
{'fl_cor_c_ss' }	0.9689	0.049249	0.11356	0.64835	0.65952	-0.16352

{'fl_cov_y_head_inc' }	10447	247.57	4.7014	32001	34663	-7.2988
{'fl_cor_y_head_inc' }	1	0.17061	0.10539	0.79039	0.8019	-0.21355
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	3.0496	0.12686	0.0019592	7.8607	8.5482	-0.004522
{'fl_cor_yshr_nttxss'}	0.69685	0.20871	0.10484	0.46349	0.4721	-0.31585
{'fracByP0_01' }	5.2048e-06	0.016474	0	0	0	3.454e-10
{'fracByP10' }	0.012266	0.059565	0	0	0	0.013499
{'fracByP25' }	0.048378	0.14379	0	0.00017636	0.00011575	0.041251
{'fracByP50' }	0.16792	0.3659	0	0.0096671	0.0099787	0.096614
{'fracByP75' }	0.37761	0.67037	1	0.14588	0.12399	0.18524
{'fracByP90' }	0.62443	0.88673	1	0.38405	0.37201	0.59031
{'fracByP99_99' }	0.99865	1	1	1	0.99569	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0 and kids =1
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	77.224	36.118	0.25753	50.133	55.699	0.50944
{'unweighted_sum' }	9.4577e+06	1909	1	1.0976e+05	7.0927e+07	2388.4
{'sd' }	92.606	11.182	0.43728	201.74	216.09	0.40919
{'coefofvar' }	1.1992	0.3096	1.6979	4.0241	3.8797	0.80323
{'gini' }	0.50176	0.17438	0.68158	0.91498	0.91432	0.43583
{'min' }	2.2124	19	0	0	0	2.6006e-05
{'max' }	1414.1	64	1	7837.6	8288	1
{'pYis0' }	0	0	0.74247	0.51823	0.50857	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.25753	0.48177	0.49143	1
{'pYisMINY' }	0.00011729	0.020845	0.74247	0.51823	0.50857	0
{'pYisMAXY' }	2.9884e-10	0.0031122	0.25753	6.0129e-05	1.3468e-07	0.0019745
{'p0_01' }	2.2124	19	0	0	0	0.00017362
{'p10' }	14.915	22	0	0	0	0.045704
{'p25' }	21.558	26	0	0	0	0.054711
{'p50' }	49.469	35	0	0	0	0.64204
{'p75' }	98.617	45	1	17.072	19.333	0.92141
{'p90' }	156.98	52	1	109.35	136.58	0.99992
{'p99_99' }	1327.9	64	1	6221.7	6616.1	1
{'fl_cov_y_all' }	8575.9	169.71	4.9783	11522	12707	-13.219
{'fl_cor_y_all' }	1	0.16388	0.12294	0.61676	0.63498	-0.34884
{'fl_cov_age_ss' }	169.71	125.05	0.19904	795.68	867.28	-3.1588
{'fl_cor_age_ss' }	0.16388	1	0.040704	0.35271	0.35891	-0.69034
{'fl_cov_educ_ss' }	4.9783	0.19904	0.19121	6.9833	7.701	-0.00062022
{'fl_cor_educ_ss' }	0.12294	0.040704	1	0.079162	0.081499	-0.0034663
{'fl_cov_a_ss' }	11522	795.68	6.9833	40699	43561	-22.945
{'fl_cor_a_ss' }	0.61676	0.35271	0.079162	1	0.99924	-0.27795
{'fl_cov_ap_ss' }	12707	867.28	7.701	43561	46696	-25.545
{'fl_cor_ap_ss' }	0.63498	0.35891	0.081499	0.99924	1	-0.28889
{'fl_cov_MPC' }	-13.219	-3.1588	-0.00062022	-22.945	-25.545	0.16744
{'fl_cor_MPC' }	-0.34884	-0.69034	-0.0034663	-0.27795	-0.28889	1
{'fl_cov_Mass' }	-0.0042955	-0.00094448	-2.0707e-05	-0.0064946	-0.0071902	3.6132e-05
{'fl_cor_Mass' }	-0.29915	-0.54471	-0.30541	-0.20762	-0.21459	0.56947
{'fl_cov_c_ss' }	5286.8	57.653	3.0637	5797.1	6415.9	-7.5001
{'fl_cor_c_ss' }	0.98277	0.088754	0.12061	0.49468	0.51111	-0.31553
{'fl_cov_y_head_inc' }	8575.9	169.71	4.9783	11522	12707	-13.219
{'fl_cor_y_head_inc' }	1	0.16388	0.12294	0.61676	0.63498	-0.34884
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	2.7835	0.092402	0.0023785	2.7364	3.0374	-0.008083
{'fl_cor_yshr_nttxss'}	0.70702	0.19437	0.12794	0.31905	0.33062	-0.46464
{'fracByP0_01' }	3.3603e-06	0.010966	0	0	0	1.128e-08
{'fracByP10' }	0.013765	0.068419	0	0	0	0.0071548
{'fracByP25' }	0.05015	0.15825	0	0	0	0.02185
{'fracByP50' }	0.17187	0.37923	0	0	0	0.11762

{'fracByP75' }	0.3897	0.67298	1	0.023043	0.019831	0.5241
{'fracByP90' }	0.62693	0.85638	1	0.17138	0.18319	0.81919
{'fracByP99_99' }	0.99824	1	1	0.98616	0.98593	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0 and kids =2
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	75.878	34.566	0.24576	20.633	23.371	0.72325
{'unweighted_sum' }	9.4577e+06	1909	1	1.0976e+05	7.0414e+07	2760.6
{'sd' }	89.631	9.1574	0.43053	116.76	126.18	0.39034
{'coefofvar' }	1.1812	0.26492	1.7519	5.6592	5.3988	0.5397
{'gini' }	0.49639	0.14726	0.69833	0.95999	0.9601	0.25818
{'min' }	2.2124	19	0	0	0	4.7129e-05
{'max' }	1414.1	64	1	7837.6	8223.8	1
{'pYis0' }	0	0	0.75424	0.73318	0.73314	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.24576	0.26682	0.26686	1
{'pYisMINY' }	0.00013002	0.01156	0.75424	0.73318	0.73314	0
{'pYisMAXY' }	1.2202e-11	0.00057855	0.24576	1.2546e-05	1.2401e-08	5.896e-17
{'p0_01' }	2.2124	19	0	0	0	0.0019756
{'p10' }	15.405	23	0	0	0	0.053672
{'p25' }	21.514	27	0	0	0	0.35253
{'p50' }	48.108	34	0	0	0	0.95912
{'p75' }	101.26	41	0	0.049774	0.21151	0.99743
{'p90' }	152.47	47	1	36.285	38.577	0.99996
{'p99_99' }	1231.2	64	1	3687.6	3976	1
{'fl_cov_y_all' }	8033.7	119.41	5.2923	5359.6	6011.8	-14.324
{'fl_cor_y_all' }	1	0.14549	0.13714	0.51211	0.53159	-0.40941
{'fl_cov_age_ss' }	119.41	83.858	0.38657	322.75	359.18	-2.2714
{'fl_cor_age_ss' }	0.14549	1	0.09805	0.30185	0.31086	-0.63546
{'fl_cov_educ_ss' }	5.2923	0.38657	0.18536	4.2733	4.7907	-0.016788
{'fl_cor_educ_ss' }	0.13714	0.09805	1	0.085006	0.088189	-0.099895
{'fl_cov_a_ss' }	5359.6	322.75	4.2733	13634	14718	-13.799
{'fl_cor_a_ss' }	0.51211	0.30185	0.085006	1	0.99901	-0.30275
{'fl_cov_ap_ss' }	6011.8	359.18	4.7907	14718	15920	-15.658
{'fl_cor_ap_ss' }	0.53159	0.31086	0.088189	0.99901	1	-0.31793
{'fl_cov_MPC' }	-14.324	-2.2714	-0.016788	-13.799	-15.658	0.15236
{'fl_cor_MPC' }	-0.40941	-0.63546	-0.099895	-0.30275	-0.31793	1
{'fl_cov_Mass' }	-0.0052709	-0.0007189	-3.3112e-05	-0.0042549	-0.0048015	3.93e-05
{'fl_cor_Mass' }	-0.28823	-0.38478	-0.37696	-0.1786	-0.18652	0.49348
{'fl_cov_c_ss' }	5413.1	54.569	3.5069	2941.1	3313.6	-9.0513
{'fl_cor_c_ss' }	0.99055	0.097738	0.1336	0.41313	0.43074	-0.38033
{'fl_cov_y_head_inc' }	8033.7	119.41	5.2923	5359.6	6011.8	-14.324
{'fl_cor_y_head_inc' }	1	0.14549	0.13714	0.51211	0.53159	-0.40941
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	2.6961	0.066713	0.0026653	1.1952	1.3526	-0.0076465
{'fl_cor_yshr_nttxss'}	0.71263	0.17259	0.14666	0.24251	0.25396	-0.46409
{'fracByP0_01' }	3.791e-06	0.0063542	0	0	0	1.1353e-07
{'fracByP10' }	0.013741	0.067607	0	0	0	0.0062139
{'fracByP25' }	0.051008	0.1793	0	0	0	0.023121
{'fracByP50' }	0.17781	0.42619	0	0	0	0.31624
{'fracByP75' }	0.39852	0.67985	0	4.51e-05	8.0867e-05	0.66008
{'fracByP90' }	0.63025	0.85252	1	0.080315	0.066873	0.86344
{'fracByP99_99' }	0.99831	1	1	0.97432	0.976	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0 and kids =3
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC

{'mean' }	75.467	34.068	0.22983	9.808	11.438	0.81596
{'unweighted_sum' }	9.4577e+06	1909	1	1.0976e+05	7.0107e+07	2946.9
{'sd' }	88.353	7.9772	0.42073	72.848	79.655	0.35056
{'coefofvar' }	1.1707	0.23415	1.8306	7.4274	6.9641	0.42962
{'gini' }	0.49315	0.12909	0.72073	0.97833	0.97765	0.17723
{'min' }	2.2124	19	0	0	0	2.6484e-05
{'max' }	1414.1	64	1	7837.6	8181.7	1
{'pYis0' }	0	0	0.77017	0.83924	0.8319	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.22983	0.16076	0.1681	1
{'pYisMINY' }	0.00015231	0.0083137	0.77017	0.83924	0.8319	0
{'pYisMAXY' }	4.2651e-13	0.00013776	0.22983	2.458e-06	1.1465e-07	8.7717e-16
{'p0_01' }	2.2124	19	0	0	0	0.0029039
{'p10' }	15.879	24	0	0	0	0.058541
{'p25' }	21.471	28	0	0	0	0.9259
{'p50' }	47.665	33	0	0	0	0.99717
{'p75' }	101.26	39	0	0	0	0.99994
{'p90' }	152.47	45	1	3.1855	7.7681	0.99999
{'p99_99' }	1183.7	64	1	2521.2	2691.9	1
{'fl_cov_y_all' }	7806.2	94.577	5.3782	2819	3233.5	-12.715
{'fl_cor_y_all' }	1	0.13419	0.14468	0.43798	0.45946	-0.41052
{'fl_cov_age_ss' }	94.577	63.635	0.47515	149.89	171.02	-1.6217
{'fl_cor_age_ss' }	0.13419	1	0.14157	0.25792	0.26914	-0.5799
{'fl_cov_educ_ss' }	5.3782	0.47515	0.17701	2.6603	3.0441	-0.020719
{'fl_cor_educ_ss' }	0.14468	0.14157	1	0.086797	0.090835	-0.14048
{'fl_cov_a_ss' }	2819	149.89	2.6603	5306.8	5795.1	-7.4566
{'fl_cor_a_ss' }	0.43798	0.25792	0.086797	1	0.99869	-0.29199
{'fl_cov_ap_ss' }	3233.5	171.02	3.0441	5795.1	6344.8	-8.7043
{'fl_cor_ap_ss' }	0.45946	0.26914	0.090835	0.99869	1	-0.31172
{'fl_cov_MPC' }	-12.715	-1.6217	-0.020719	-7.4566	-8.7043	0.12289
{'fl_cor_MPC' }	-0.41052	-0.5799	-0.14048	-0.29199	-0.31172	1
{'fl_cov_Mass' }	-0.0024115	-0.0002386	-1.7048e-05	-0.0010801	-0.0012547	1.507e-05
{'fl_cor_Mass' }	-0.27772	-0.30433	-0.4123	-0.15086	-0.16027	0.43739
{'fl_cov_c_ss' }	5480.5	50.976	3.707	1627.9	1877.8	-8.4148
{'fl_cor_c_ss' }	0.9944	0.10244	0.14125	0.35824	0.37793	-0.38481
{'fl_cov_y_head_inc' }	7806.2	94.577	5.3782	2819	3233.5	-12.715
{'fl_cor_y_head_inc' }	1	0.13419	0.14468	0.43798	0.45946	-0.41052
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	2.6592	0.053865	0.0027482	0.59526	0.69211	-0.0060276
{'fl_cor_yshr_nttxss'}	0.71577	0.16058	0.15534	0.19433	0.20664	-0.40891
{'fracByP0_01' }	4.4651e-06	0.0046366	0	0	0	7.5386e-06
{'fracByP10' }	0.014425	0.072031	0	0	0	0.0054087
{'fracByP25' }	0.051566	0.1985	0	0	0	0.090464
{'fracByP50' }	0.17821	0.41302	0	0	0	0.39112
{'fracByP75' }	0.39542	0.67505	0	0	0	0.70884
{'fracByP90' }	0.6333	0.86752	1	0.0067769	0.011343	0.87954
{'fracByP99_99' }	0.99839	1	1	0.96671	0.96633	0.99996

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0 and kids =4
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	75.605	34.197	0.2079	5.7699	6.9806	0.8545
{'unweighted_sum' }	9.4577e+06	1909	1	1.0976e+05	6.9935e+07	3075.9
{'sd' }	88.001	7.1538	0.4058	50.815	56.453	0.31779
{'coefofvar' }	1.164	0.2092	1.9519	8.8069	8.0871	0.3719
{'gini' }	0.49076	0.11447	0.75112	0.98544	0.98429	0.13964
{'min' }	2.2124	19	0	0	0	8.2058e-06
{'max' }	1414.1	64	1	7837.6	8170.7	1
{'pYis0' }	0	0	0.7921	0.89587	0.88609	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.2079	0.10413	0.11391	1

{'pYisMINY' }	0.00011385	0.0045732	0.7921	0.89587	0.88609	0	
{'pYisMAXY' }	1.4342e-14	4.6124e-05	0.2079	5.0446e-07	2.4964e-08	1.4772e-05	
{'p0_01' }	2.2124	19	0	0	0	0.00053862	
{'p10' }	16.336	25	0	0	0	0.065232	
{'p25' }	21.336	29	0	0	0	0.94323	
{'p50' }	47.418	34	0	0	0	0.99991	
{'p75' }	103.8	39	0	0	0	0.99999	
{'p90' }	152.47	44	1	0.049774	0.87994	1	
{'p99_99' }	1157	63	1	1788.7	1944.3	1	
{'fl_cov_y_all' }	7744.1	78.965	5.3457	1758.3	2075.9	-11.435	
{'fl_cor_y_all' }	1	0.12543	0.14969	0.39319	0.41787	-0.4089	
{'fl_cov_age_ss' }	78.965	51.176	0.5437	84.669	99.37	-1.2886	
{'fl_cor_age_ss' }	0.12543	1	0.18729	0.23292	0.24606	-0.56683	
{'fl_cov_educ_ss' }	5.3457	0.5437	0.16468	1.8867	2.2214	-0.021403	
{'fl_cor_educ_ss' }	0.14969	0.18729	1	0.091496	0.096967	-0.16597	
{'fl_cov_a_ss' }	1758.3	84.669	1.8867	2582.2	2863.7	-4.6074	
{'fl_cor_a_ss' }	0.39319	0.23292	0.091496	1	0.99827	-0.28531	
{'fl_cov_ap_ss' }	2075.9	99.37	2.2214	2863.7	3186.9	-5.5771	
{'fl_cor_ap_ss' }	0.41787	0.24606	0.096967	0.99827	1	-0.31087	
{'fl_cov_MPC' }	-11.435	-1.2886	-0.021403	-4.6074	-5.5771	0.10099	
{'fl_cor_MPC' }	-0.4089	-0.56683	-0.16597	-0.28531	-0.31087	1	
{'fl_cov_Mass' }	-0.0011893	-8.9038e-05	-8.6987e-06	-0.00034084	-0.00040991	6.2916e-06	
{'fl_cor_Mass' }	-0.26357	-0.24274	-0.41806	-0.13081	-0.14161	0.38612	
{'fl_cov_c_ss' }	5530.8	45.508	3.7311	1038	1235	-7.7002	
{'fl_cor_c_ss' }	0.99598	0.10081	0.1457	0.3237	0.34667	-0.38398	
{'fl_cov_y_head_inc' }	7744.1	78.965	5.3457	1758.3	2075.9	-11.435	
{'fl_cor_y_head_inc' }	1	0.12543	0.14969	0.39319	0.41787	-0.4089	
{'fl_cov_y_spouse' }	0	0	0	0	0	0	
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN	
{'fl_cov_yshr_nttxss'}	2.6459	0.045129	0.0027153	0.35962	0.43263	-0.0047757	
{'fl_cor_yshr_nttxss'}	0.71744	0.15053	0.15966	0.16887	0.18287	-0.35859	
{'fracByP0_01' }	3.3317e-06	0.0025409	0	0	0	2.1077e-07	
{'fracByP10' }	0.014727	0.072385	0	0	0	0.0046505	
{'fracByP25' }	0.051618	0.20856	0	0	0	0.12994	
{'fracByP50' }	0.1803	0.45949	0	0	0	0.42635	
{'fracByP75' }	0.40165	0.70775	0	0	0	0.71521	
{'fracByP90' }	0.63368	0.87861	1	6.4869e-05	0.00091169	0.88807	
{'fracByP99_99' }	0.99842	0.99991	1	0.9584	0.96003	0.99998	

0×0 empty char array

0×0 empty char array

---

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Marital =1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

---

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Marital =1 and kids =0

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

xxx tb_outcomes: all stats xxx

OriginalVariableNames	**y_all**	**age_ss**	**educ_ss**	**a_ss**	**ap_ss**	**MPC**	
{'mean' }	137.05	44.041	0.38021	565.82	600.98	0.16448	6.
{'unweighted_sum' }	4.2985e+07	1909	1	1.0976e+05	2.3283e+08	5924.9	
{'sd' }	143.38	15.135	0.48544	734.23	763.17	0.24014	0
{'coefofvar' }	1.0461	0.34365	1.2768	1.2976	1.2699	1.4599	
{'gini' }	0.46905	0.18905	0.50257	0.60708	0.60571	0.59064	
{'min' }	2.4223	19	0	0	0	3.1099e-08	
{'max' }	2113.2	64	1	7837.6	9493.6	0.99203	0.
{'pYis0' }	0	0	0.61979	0.1082	0.070871	0	
{'pYls0' }	0	0	0	0	0	0	

{'pYgr0' }	1	1	0.38021	0.8918	0.92913	1	
{'pYisMINY' }	7.6837e-06	0.043093	0.61979	0.1082	0.070871	1.3003e-07	
{'pYisMAXY' }	2.8102e-07	0.038439	0.38021	0.00086894	1.6808e-07	0.0015005	0
{'p0_01' }	4.6263	19	0	0	0	5.8542e-08	3.
{'p10' }	33.194	21	0	0	0.56494	0.040372	1.
{'p25' }	50.211	29	0	10.751	14.399	0.047216	5
{'p50' }	90.116	48	0	341.4	383.09	0.05628	1.
{'p75' }	167.56	58	1	874.82	874.82	0.12865	4.
{'p90' }	301.83	62	1	1482.8	1501.8	0.44366	0.
{'p99_99' }	1473.5	64	1	7837.6	8401.9	0.99203	0.
{'fl_cov_y_all' }	20557	466.03	7.1621	61424	75337	-6.6712	-0
{'fl_cor_y_all' }	1	0.21477	0.1029	0.58348	0.68851	-0.19376	
{'fl_cov_age_ss' }	466.03	229.06	-0.85351	5625.4	5782.1	-2.1753	-
{'fl_cor_age_ss' }	0.21477	1	-0.11617	0.50623	0.5006	-0.59855	
{'fl_cov_educ_ss' }	7.1621	-0.85351	0.23565	22.109	23.907	0.016724	3.
{'fl_cor_educ_ss' }	0.1029	-0.11617	1	0.06203	0.064531	0.14347	
{'fl_cov_a_ss' }	61424	5625.4	22.109	5.391e+05	5.5215e+05	-64.875	-
{'fl_cor_a_ss' }	0.58348	0.50623	0.06203	1	0.98537	-0.36795	
{'fl_cov_ap_ss' }	75337	5782.1	23.907	5.5215e+05	5.8243e+05	-69.013	-
{'fl_cor_ap_ss' }	0.68851	0.5006	0.064531	0.98537	1	-0.37657	
{'fl_cov_MPC' }	-6.6712	-2.1753	0.016724	-64.875	-69.013	0.057665	1.
{'fl_cor_MPC' }	-0.19376	-0.59855	0.14347	-0.36795	-0.37657	1	
{'fl_cov_Mass' }	-0.0046767	-0.001109	3.7936e-06	-0.028381	-0.030548	1.7151e-05	2.
{'fl_cor_Mass' }	-0.2153	-0.48365	0.051582	-0.25514	-0.26421	0.47143	
{'fl_cov_c_ss' }	7976.8	244.03	5.0323	35438	37871	-3.3856	-0
{'fl_cor_c_ss' }	0.83428	0.24179	0.15545	0.72377	0.74412	-0.21142	
{'fl_cov_y_head_inc' }	13226	411.02	5.5184	58642	62118	-3.8539	-0
{'fl_cor_y_head_inc' }	0.82112	0.24174	0.10119	0.71095	0.72452	-0.14286	
{'fl_cov_y_spouse' }	16091	120.76	3.6077	6104.9	29016	-6.1838	-0
{'fl_cor_y_spouse' }	0.62347	0.044326	0.041288	0.046193	0.21122	-0.14306	
{'fl_cov_yshr_nttxss'}	2.9598	0.14963	0.0013052	10.122	11.868	-0.0017751	-1.
{'fl_cor_yshr_nttxss'}	0.73961	0.35421	0.096331	0.49393	0.55716	-0.26484	
{'fracByP0_01' }	2.3742e-06	0.018591	0	0	0	3.6228e-11	2.
{'fracByP10' }	0.016778	0.049706	0	0	1.644e-05	0.020738	0
{'fracByP25' }	0.062951	0.1342	0	0.0010491	0.001092	0.060923	0
{'fracByP50' }	0.1937	0.35975	0	0.074263	0.074394	0.13954	
{'fracByP75' }	0.40959	0.69027	1	0.35923	0.32741	0.24381	
{'fracByP90' }	0.64663	0.88967	1	0.64579	0.61735	0.50824	
{'fracByP99_99' }	0.99864	1	1	1	0.99858	1	

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1 and kids =1
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	126.81	38.895	0.37426	335.28	359.09	0.21866
{'unweighted_sum' }	4.2985e+07	1909	1	1.0976e+05	2.2805e+08	6629.1
{'sd' }	137.89	13.46	0.48393	519.12	541.06	0.26458
{'coefofvar' }	1.0874	0.34607	1.293	1.5483	1.5068	1.21
{'gini' }	0.4794	0.19645	0.51129	0.6757	0.67017	0.56953
{'min' }	2.4223	19	0	0	0	2.9531e-06
{'max' }	2113.2	64	1	7837.6	9259.3	0.98771
{'pYis0' }	0	0	0.62574	0.14665	0.09836	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.37426	0.85335	0.90164	1
{'pYisMINY' }	1.1533e-05	0.045085	0.62574	0.14665	0.09836	1.3425e-06
{'pYisMAXY' }	1.2857e-07	0.0093218	0.37426	0.00036911	7.4208e-08	7.8003e-08
{'p0_01' }	4.0946	19	0	0	0	5.0515e-06
{'p10' }	29.853	21	0	0	0.0089708	0.043712
{'p25' }	45.936	26	0	1.3439	3.1855	0.049671
{'p50' }	82	39	0	136.58	166.43	0.063804
{'p75' }	150.26	50	1	460.95	516.76	0.32436
{'p90' }	280.82	57	1	979.69	971.85	0.59746
{'p99_99' }	1443.9	64	1	7837.6	8330.6	0.97989

{'fl_cov_y_all' }	19012	399.43	8.2623	34886	46275	-7.3948
{'fl_cor_y_all' }	1	0.21521	0.12382	0.48738	0.62026	-0.2027
{'fl_cov_age_ss' }	399.43	181.18	-0.056717	3387.9	3499.2	-2.0526
{'fl_cor_age_ss' }	0.21521	1	-0.008707	0.48485	0.48047	-0.57636
{'fl_cov_educ_ss' }	8.2623	-0.056717	0.23419	27.113	28.788	0.0087235
{'fl_cor_educ_ss' }	0.12382	-0.008707	1	0.10793	0.10995	0.068132
{'fl_cov_a_ss' }	34886	3387.9	27.113	2.6948e+05	2.7484e+05	-56.033
{'fl_cor_a_ss' }	0.48738	0.48485	0.10793	1	0.97852	-0.40797
{'fl_cov_ap_ss' }	46275	3499.2	28.788	2.7484e+05	2.9275e+05	-60.13
{'fl_cor_ap_ss' }	0.62026	0.48047	0.10995	0.97852	1	-0.42004
{'fl_cov_MPC' }	-7.3948	-2.0526	0.0087235	-56.033	-60.13	0.070001
{'fl_cor_MPC' }	-0.2027	-0.57636	0.068132	-0.40797	-0.42004	1
{'fl_cov_Mass' }	-0.0025883	-0.00059094	-4.2429e-06	-0.011567	-0.012454	1.0667e-05
{'fl_cor_Mass' }	-0.19943	-0.46643	-0.093149	-0.23672	-0.24455	0.42835
{'fl_cov_c_ss' }	7750	239.23	5.7898	22197	24014	-4.0469
{'fl_cor_c_ss' }	0.82126	0.25969	0.17482	0.62479	0.64852	-0.2235
{'fl_cov_y_head_inc' }	11310	322.84	6.2958	32688	34881	-3.3338
{'fl_cor_y_head_inc' }	0.7931	0.2319	0.12579	0.60883	0.62333	-0.12183
{'fl_cov_y_spouse' }	14297	142.17	3.6501	4079.8	21148	-7.5381
{'fl_cor_y_spouse' }	0.66345	0.067582	0.048263	0.050288	0.2501	-0.18231
{'fl_cov_yshr_nttxss'}	3.0358	0.13743	0.0020146	6.3832	7.8719	-0.0017636
{'fl_cor_yshr_nttxss'}	0.7398	0.34308	0.13988	0.41317	0.48886	-0.22398
{'fracByP0_01' }	2.3526e-06	0.022024	0	0	0	1.6451e-09
{'fracByP10' }	0.016827	0.063641	0	0	4.5442e-08	0.017917
{'fracByP25' }	0.062305	0.14879	0	0.00031705	0.00050867	0.050013
{'fracByP50' }	0.18565	0.35363	0	0.028723	0.033206	0.11364
{'fracByP75' }	0.39859	0.63896	1	0.25206	0.26267	0.30191
{'fracByP90' }	0.63415	0.85253	1	0.60086	0.56082	0.59645
{'fracByP99_99' }	0.99857	1	1	1	0.99795	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1 and kids =2
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	123.9	36.69	0.35209	241.75	258.39	0.283
{'unweighted_sum' }	4.2985e+07	1909	1	1.0976e+05	2.2475e+08	7148.7
{'sd' }	135.49	11.305	0.47762	396.45	413.37	0.32499
{'coefofvar' }	1.0935	0.30813	1.3565	1.6399	1.5998	1.1484
{'gini' }	0.47977	0.17376	0.54385	0.69864	0.69919	0.56783
{'min' }	2.4223	19	0	0	0	1.7705e-05
{'max' }	2113.2	64	1	7837.6	9093.5	0.99767
{'pYis0' }	0	0	0.64791	0.20953	0.19817	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.35209	0.79047	0.80183	1
{'pYisMINY' }	5.8858e-06	0.017286	0.64791	0.20953	0.19817	1.3919e-08
{'pYisMAXY' }	5.2395e-08	0.0029313	0.35209	0.00016155	5.2395e-08	0.0038722
{'p0_01' }	4.0946	19	0	0	0	3.5057e-05
{'p10' }	29.719	22	0	0	0	0.04533
{'p25' }	46.214	27	0	0.39819	0.84948	0.052305
{'p50' }	77.268	36	0	66.249	95.958	0.085269
{'p75' }	145.05	45	1	341.4	376.04	0.36871
{'p90' }	281.72	53	1	688.07	737.04	0.92285
{'p99_99' }	1440.1	64	1	7837.6	8270.6	0.99767
{'fl_cov_y_all' }	18356	296.81	9.4834	21725	31477	-8.1271
{'fl_cor_y_all' }	1	0.19378	0.14655	0.40446	0.56204	-0.18458
{'fl_cov_age_ss' }	296.81	127.81	0.41281	2029.3	2101	-1.9236
{'fl_cor_age_ss' }	0.19378	1	0.076452	0.45278	0.44957	-0.52355
{'fl_cov_educ_ss' }	9.4834	0.41281	0.22812	26.589	28.064	-0.0051871
{'fl_cor_educ_ss' }	0.14655	0.076452	1	0.14042	0.14214	-0.033418
{'fl_cov_a_ss' }	21725	2029.3	26.589	1.5717e+05	1.5914e+05	-55.262
{'fl_cor_a_ss' }	0.40446	0.45278	0.14042	1	0.97107	-0.42891
{'fl_cov_ap_ss' }	31477	2101	28.064	1.5914e+05	1.7088e+05	-59.333
{'fl_cor_ap_ss' }	0.56204	0.44957	0.14214	0.97107	1	-0.44166

{'fl_cov_MPC' }	-8.1271	-1.9236	-0.0051871	-55.262	-59.333	0.10562
{'fl_cor_MPC' }	-0.18458	-0.52355	-0.033418	-0.42891	-0.44166	1
{'fl_cov_Mass' }	-0.0025837	-0.00048907	-7.5002e-06	-0.010401	-0.011233	1.9704e-05
{'fl_cor_Mass' }	-0.2131	-0.48341	-0.17547	-0.29317	-0.30365	0.67751
{'fl_cov_c_ss' }	7694.1	183.86	6.7702	15048	16419	-4.5844
{'fl_cor_c_ss' }	0.81043	0.2321	0.20229	0.54169	0.56682	-0.20131
{'fl_cov_y_head_inc' }	10375	229.41	7.1039	20173	21620	-2.5909
{'fl_cor_y_head_inc' }	0.77396	0.20509	0.15032	0.51427	0.52859	-0.080573
{'fl_cov_y_spouse' }	12953	109.38	3.8618	2518.6	15998	-8.9849
{'fl_cor_y_spouse' }	0.68497	0.069321	0.057932	0.045517	0.27729	-0.19809
{'fl_cov_yshr_nttxss'}	3.0424	0.10279	0.0026306	4.1906	5.4678	-0.0014473
{'fl_cor_yshr_nttxss'}	0.74629	0.30219	0.18304	0.35129	0.4396	-0.148
{'fracByP0_01' }	2.5678e-06	0.0089516	0	0	0	9.7289e-09
{'fracByP10' }	0.017503	0.059247	0	0	0	0.014454
{'fracByP25' }	0.063777	0.17073	0	6.1771e-05	7.399e-05	0.040341
{'fracByP50' }	0.18597	0.39141	0	0.014684	0.020797	0.095905
{'fracByP75' }	0.3971	0.64722	1	0.24255	0.24093	0.29924
{'fracByP90' }	0.63099	0.86184	1	0.56042	0.54037	0.67093
{'fracByP99_99' }	0.99858	1	1	1	0.9971	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1 and kids =3
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	**y_all**	**age_ss**	**educ_ss**	**a_ss**	**ap_ss**	**MPC**
{'mean' }	123.04	35.933	0.33677	181.38	193.25	0.32768
{'unweighted_sum' }	4.2985e+07	1909	1	1.0976e+05	2.2184e+08	7540.5
{'sd' }	134.76	9.548	0.4726	304.54	317.37	0.34985
{'coefofvar' }	1.0952	0.26572	1.4034	1.679	1.6423	1.0677
{'gini' }	0.47961	0.14822	0.56638	0.71107	0.7145	0.54713
{'min' }	2.4223	19	0	0	0	2.8184e-05
{'max' }	2113.2	64	1	7837.6	8932.7	0.99986
{'pYis0' }	0	0	0.66323	0.27339	0.25656	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.33677	0.72661	0.74344	1
{'pYisMINY' }	2.4635e-06	0.0074507	0.66323	0.27339	0.25656	1.8326e-10
{'pYisMAXY' }	1.6377e-08	0.00095755	0.33677	6.1887e-05	1.6377e-08	0.00080502
{'p0_01' }	4.1145	19	0	0	0	0.00011742
{'p10' }	30.058	24	0	0	0	0.047063
{'p25' }	46.359	28	0	0	0	0.055774
{'p50' }	74.461	35	0	49.774	61.238	0.11769
{'p75' }	142.34	43	1	244.54	277.94	0.6037
{'p90' }	287.5	49	1	529.99	535.37	0.93282
{'p99_99' }	1430	64	1	6602.5	6971.6	0.99986
{'fl_cov_y_all' }	18159	218.54	9.8016	13697	22021	-8.1639
{'fl_cor_y_all' }	1	0.16986	0.15391	0.33375	0.51489	-0.17317
{'fl_cov_age_ss' }	218.54	91.164	0.52329	1171.5	1216.5	-1.4238
{'fl_cor_age_ss' }	0.16986	1	0.11597	0.4029	0.40145	-0.42623
{'fl_cov_educ_ss' }	9.8016	0.52329	0.22335	21.81	23.004	-0.012288
{'fl_cor_educ_ss' }	0.15391	0.11597	1	0.15153	0.15337	-0.074319
{'fl_cov_a_ss' }	13697	1171.5	21.81	92747	93103	-48.862
{'fl_cor_a_ss' }	0.33375	0.4029	0.15153	1	0.96326	-0.4586
{'fl_cov_ap_ss' }	22021	1216.5	23.004	93103	1.0073e+05	-52.414
{'fl_cor_ap_ss' }	0.51489	0.40145	0.15337	0.96326	1	-0.47206
{'fl_cov_MPC' }	-8.1639	-1.4238	-0.012288	-48.862	-52.414	0.1224
{'fl_cor_MPC' }	-0.17317	-0.42623	-0.074319	-0.4586	-0.47206	1
{'fl_cov_Mass' }	-0.0017742	-0.00025843	-6.7382e-06	-0.0061074	-0.0065801	1.6886e-05
{'fl_cor_Mass' }	-0.1998	-0.41075	-0.21636	-0.30433	-0.31463	0.73248
{'fl_cov_c_ss' }	7630.7	136.08	6.9079	10217	11252	-4.3991
{'fl_cor_c_ss' }	0.80111	0.20163	0.20679	0.47462	0.50156	-0.17789
{'fl_cov_y_head_inc' }	9898	162.51	7.2852	12662	13677	-1.6569
{'fl_cor_y_head_inc' }	0.76008	0.17612	0.15951	0.43022	0.44593	-0.049009
{'fl_cov_y_spouse' }	11418	77.456	3.4782	1431	11533	-8.9938
{'fl_cor_y_spouse' }	0.69854	0.066878	0.060673	0.038736	0.29957	-0.21193

{'fl_cov_yshr_nttxss'}	3.0868	0.075984	0.0028334	2.7595	3.8461	-0.00095724
{'fl_cor_yshr_nttxss'}	0.75086	0.26086	0.19652	0.29702	0.39724	-0.089689
{'fracByP0_01' }	2.6951e-06	0.0039397	0	0	0	1.8877e-08
{'fracByP10' }	0.018288	0.072223	0	0	0	0.013072
{'fracByP25' }	0.065683	0.17694	0	0	0	0.036483
{'fracByP50' }	0.18675	0.40707	0	0.014653	0.015839	0.093836
{'fracByP75' }	0.39651	0.68677	1	0.21901	0.2311	0.31502
{'fracByP90' }	0.62905	0.85528	1	0.57019	0.53311	0.71422
{'fracByP99_99' }	0.99858	1	1	0.99623	0.99591	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1 and kids =4
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	122.66	35.703	0.31868	134.08	139.4	0.39543
{'unweighted_sum' }	4.2985e+07	1909	1	1.0976e+05	2.179e+08	7882.9
{'sd' }	134.69	8.0821	0.46596	231.92	238.9	0.38251
{'coefofvar' }	1.098	0.22637	1.4622	1.7297	1.7137	0.96733
{'gini' }	0.48036	0.12463	0.59294	0.72684	0.73661	0.50874
{'min' }	2.4223	19	0	0	0	3.8102e-05
{'max' }	2113.2	64	1	7837.6	8704.7	0.99992
{'pYis0' }	0	0	0.68132	0.34914	0.34013	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.31868	0.65086	0.65987	1
{'pYisMINY' }	1.1599e-06	0.0032191	0.68132	0.34914	0.34013	3.985e-11
{'pYisMAXY' }	3.897e-09	0.00033757	0.31868	2.2801e-05	3.897e-09	0.00037781
{'p0_01' }	4.1004	19	0	0	0	0.00075413
{'p10' }	30.111	26	0	0	0	0.049228
{'p25' }	46.359	30	0	0	0	0.063533
{'p50' }	72.047	35	0	25.484	37.354	0.15982
{'p75' }	140.31	41	1	203.87	205.7	0.92464
{'p90' }	295.56	47	1	398.19	380.85	0.93319
{'p99_99' }	1419.3	64	1	4844.8	5132.1	0.99992
{'fl_cov_y_all' }	18141	162.08	9.9929	8633.2	14723	-10.105
{'fl_cor_y_all' }	1	0.14889	0.15922	0.27637	0.45758	-0.19614
{'fl_cov_age_ss' }	162.08	65.321	0.60128	694.42	718.43	-1.1353
{'fl_cor_age_ss' }	0.14889	1	0.15966	0.37047	0.37209	-0.36722
{'fl_cov_educ_ss' }	9.9929	0.60128	0.21712	17.187	17.91	-0.012469
{'fl_cor_educ_ss' }	0.15922	0.15966	1	0.15904	0.16089	-0.069956
{'fl_cov_a_ss' }	8633.2	694.42	17.187	53789	53480	-44.307
{'fl_cor_a_ss' }	0.27637	0.37047	0.15904	1	0.96523	-0.49944
{'fl_cov_ap_ss' }	14723	718.43	17.91	53480	57072	-46.508
{'fl_cor_ap_ss' }	0.45758	0.37209	0.16089	0.96523	1	-0.50895
{'fl_cov_MPC' }	-10.105	-1.1353	-0.012469	-44.307	-46.508	0.14632
{'fl_cor_MPC' }	-0.19614	-0.36722	-0.069956	-0.49944	-0.50895	1
{'fl_cov_Mass' }	-0.0014211	-0.00014305	-5.8208e-06	-0.0040364	-0.0042519	1.4768e-05
{'fl_cor_Mass' }	-0.19307	-0.32388	-0.2286	-0.31848	-0.32569	0.70649
{'fl_cov_c_ss' }	7510.9	98.477	6.8126	6791.1	7444.5	-5.3614
{'fl_cor_c_ss' }	0.78948	0.1725	0.20699	0.41455	0.44117	-0.19844
{'fl_cov_y_head_inc' }	9635.4	117.27	7.3807	7962	8663.6	-2.0965
{'fl_cor_y_head_inc' }	0.75004	0.15212	0.16607	0.35993	0.38022	-0.057464
{'fl_cov_y_spouse' }	8505.9	44.81	2.6122	671.21	6059.8	-8.0088
{'fl_cor_y_spouse' }	0.70749	0.062113	0.062804	0.032422	0.28417	-0.23456
{'fl_cov_yshr_nttxss'}	3.2176	0.057153	0.0030209	1.8379	2.6173	-0.0013876
{'fl_cor_yshr_nttxss'}	0.74773	0.22134	0.20292	0.24804	0.34291	-0.11355
{'fracByP0_01' }	2.7729e-06	0.0017131	0	0	0	8.7154e-08
{'fracByP10' }	0.018803	0.083723	0	0	0	0.011264
{'fracByP25' }	0.06524	0.21451	0	0	0	0.032283
{'fracByP50' }	0.1868	0.43315	0	0.0083667	0.011912	0.09338
{'fracByP75' }	0.39644	0.69222	1	0.26486	0.22027	0.41184
{'fracByP90' }	0.62896	0.87402	1	0.57158	0.52004	0.76862
{'fracByP99_99' }	0.99859	1	1	0.99554	0.99522	1

Distributional Statistics By Marital Status, Kids Count and Income Bins

Various statistics, including MPC (of the first check) by Marital Status and Kids COunt and income bins

```
it_row_ctr = 0;
for it_marry_ctr=1:mp_params('n_marriedgrid')

    display(['']);
    display(['']);
    display(['--------------------------------']);
    display(['--------------------------------']);
    display(['--------------------------------']);
    display(['--------------------------------']);
    display(['xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx']);
    display(['Marital =' num2str(ar_marital(it_marry_ctr))]);
    display(['xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx']);
    display(['--------------------------------']);
    display(['--------------------------------']);

    for it_kids_ctr=1:mp_params('n_kidsgrid')
        display(['xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx']);
        display(['Marital =' num2str(ar_marital(it_marry_ctr)) ' and kids =' num2str(ar_kids(it
        display(['xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx']);

        % construct input data
        y_all_grp = y_all(min_age:max_age, :, :, : ,it_marry_ctr ,it_ctr);
        age_ss_grp = age_ss(min_age:max_age, :, :, : ,it_marry_ctr, it_kids_ctr);
        educ_ss_grp = educ_ss(min_age:max_age, :, :, : ,it_marry_ctr, it_kids_ctr);
        a_ss_grp = a_ss(min_age:max_age, :, :, : ,it_marry_ctr, it_kids_ctr);
        ap_ss_grp = ap_ss(min_age:max_age, :, :, : ,it_marry_ctr, it_kids_ctr);
        mn_MPC_C_gain_share_check_grp = mn_MPC_C_gain_share_check(min_age:max_age, :, :, :, it_
        Phi_true_grp = Phi_true_1(min_age:max_age, :, :, : ,it_marry_ctr, it_kids_ctr);
        c_ss_grp = c_ss(min_age:max_age, :, :, : ,it_marry_ctr, it_kids_ctr);
        y_head_inc_grp = y_head_inc(min_age:max_age, :, :, : ,it_marry_ctr, it_kids_ctr);
        y_spouse_inc_grp = y_spouse_inc(min_age:max_age, :, :, : ,it_marry_ctr, it_kids_ctr);
        yshr_nttxss_grp = yshr_nttxss(min_age:max_age, :, :, : ,it_marry_ctr, it_kids_ctr);

        % Income Bins
        ar_y_all = y_all_grp(:);
        ar_age_ss = age_ss_grp(:);
        ar_educ_ss = educ_ss_grp(:);
        ar_a_ss = a_ss_grp(:);
        ar_ap_ss = ap_ss_grp(:);
        ar_mn_MPC_C_gain_share_check = mn_MPC_C_gain_share_check_grp(:);
        ar_Phi_true = Phi_true_grp(:);
        ar_c_ss = c_ss_grp(:);
        ar_y_head_inc = y_head_inc_grp(:);
        ar_y_spouse_inc = y_spouse_inc_grp(:);
        ar_yshr_nttxss = yshr_nttxss_grp(:);

        % income bins loop
        for it_y_all_ctr=1:6
```

```
% Current y group index
% y is in thousands of dollars
y_all_start = (it_y_all_ctr-1)*20;
if (it_y_all_ctr == 6)
    y_all_end = max(ar_y_all);
else
    y_all_end = it_y_all_ctr*20;
end

display(['xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx']);
display(['Marital =' num2str(ar_marital(it_marry_ctr)) ', kids =' num2str(ar_kids(i
display(['xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx']);

ar_y_idx = (ar_y_all >= y_all_start & ar_y_all <y_all_end);

ar_mky_y_all = ar_y_all(ar_y_idx);
ar_mky_age_ss = ar_age_ss(ar_y_idx);
ar_mky_educ_ss = ar_educ_ss(ar_y_idx);
ar_mky_a_ss = ar_a_ss(ar_y_idx);
ar_mky_ap_ss = ar_ap_ss(ar_y_idx);
ar_mky_mn_MPC_C_gain_share_check = ar_mn_MPC_C_gain_share_check(ar_y_idx);
ar_mky_Phi_true = ar_Phi_true(ar_y_idx);
ar_mky_c_ss = ar_c_ss(ar_y_idx);
ar_mky_y_head_inc = ar_y_head_inc(ar_y_idx);
ar_mky_y_spouse_inc = ar_y_spouse_inc(ar_y_idx);
ar_mky_yshr_nttxss = ar_yshr_nttxss(ar_y_idx);

mp_cl_ar_xyz_of_s = containers.Map('KeyType','char', 'ValueType','any');
mp_cl_ar_xyz_of_s('y_all') = {ar_mky_y_all(:), zeros(1)};
mp_cl_ar_xyz_of_s('age_ss') = {ar_mky_age_ss(:), zeros(1)};
mp_cl_ar_xyz_of_s('educ_ss') = {ar_mky_educ_ss(:), zeros(1)};
mp_cl_ar_xyz_of_s('a_ss') = {ar_mky_a_ss(:), zeros(1)};
mp_cl_ar_xyz_of_s('ap_ss') = {ar_mky_ap_ss(:), zeros(1)};
mp_cl_ar_xyz_of_s('MPC') = {ar_mky_mn_MPC_C_gain_share_check(:), zeros(1)};
mp_cl_ar_xyz_of_s('Mass') = {ar_mky_Phi_true(:), zeros(1)};
mp_cl_ar_xyz_of_s('c_ss') = {ar_mky_c_ss(:), zeros(1)};
mp_cl_ar_xyz_of_s('y_head_inc') = {ar_mky_y_head_inc(:), zeros(1)};
mp_cl_ar_xyz_of_s('y_spouse') = {ar_mky_y_spouse_inc(:), zeros(1)};
mp_cl_ar_xyz_of_s('yshr_nttxss') = {ar_mky_yshr_nttxss(:), zeros(1)};
mp_cl_ar_xyz_of_s('ar_st_y_name') = ["y_all", "age_ss", "educ_ss", "a_ss", "ap_ss",

% controls
mp_support = containers.Map('KeyType','char', 'ValueType','any');
mp_support('ar_fl_percentiles') = [0.01 10 25 50 75 90 99.99];
mp_support('bl_display_final') = true;
mp_support('bl_display_detail') = false;
mp_support('bl_display_drvm2outcomes') = false;
mp_support('bl_display_drvstats') = false;
mp_support('bl_display_drvm2covcor') = false;

% Call Function
mp_cl_mt_xyz_of_s = ff_simu_stats(ar_mky_Phi_true(:)/sum(ar_mky_Phi_true,'all'), mp

it_marital = ar_marital(it_marry_ctr);
```

```
            it_kids = ar_kids(it_kids_ctr);
            fl_y_all_start = y_all_start;
            fl_y_all_end = y_all_end;

            tb_dist_stats = mp_cl_mt_xyz_of_s('tb_outcomes');
            fl_age_mean = tb_dist_stats{"age_ss", "mean"};
            fl_age_p50 = tb_dist_stats{"age_ss", "p50"};

            fl_educ_mean = tb_dist_stats{"educ_ss", "mean"};

            fl_a_mean = tb_dist_stats{"a_ss", "mean"};
            fl_a_p50 = tb_dist_stats{"a_ss", "p50"};

            fl_ap_mean = tb_dist_stats{"ap_ss", "mean"};
            fl_ap_p50 = tb_dist_stats{"ap_ss", "p50"};

            fl_y_all_mean = tb_dist_stats{"y_all", "mean"};
            fl_y_all_p50 = tb_dist_stats{"y_all", "p50"};

            fl_mpc_mean = tb_dist_stats{"MPC", "mean"};
            fl_mpc_p50 = tb_dist_stats{"MPC", "p50"};

            fl_mass = tb_dist_stats{"Mass", "unweighted_sum"};

            fl_c_ss_mean = tb_dist_stats{"c_ss", "mean"};
            fl_c_ss_p50 = tb_dist_stats{"c_ss", "p50"};

            fl_y_head_inc_mean = tb_dist_stats{"y_head_inc", "mean"};
            fl_y_spouse_mean = tb_dist_stats{"y_spouse", "mean"};

            ar_store_stats = [it_marital, it_kids, fl_y_all_start, fl_y_all_end, ...
                fl_age_mean, fl_age_p50, fl_educ_mean, ...
                fl_a_mean, fl_a_p50, fl_ap_mean, fl_ap_p50, ...
                fl_y_all_mean, fl_y_all_p50, ...
                fl_mpc_mean, fl_mpc_p50, ...
                fl_mass, ...
                fl_c_ss_mean, fl_c_ss_p50, ...
                fl_y_head_inc_mean, fl_y_spouse_mean];

            it_row_ctr = it_row_ctr + 1;

            if (it_row_ctr>1)
                mt_store_stats_by_mky = [mt_store_stats_by_mky;ar_store_stats];
            else
                mt_store_stats_by_mky = [ar_store_stats];
            end

        end
    end
end
```

```
  0×0 empty char array
  0×0 empty char array
------------------------------
------------------------------
```

```
------------------------------
------------------------------
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
------------------------------
------------------------------
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0 and kids =0
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =0, ybin =0 to 20
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx
```

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	12.48	32.952	0.21303	0.29546	0.32094	0.51943
{'unweighted_sum' }	36580	1909	1	2195	2.9679e+05	418.87
{'sd' }	4.53	13.047	0.40945	0.96168	0.89222	0.34526
{'coefofvar' }	0.36297	0.39595	1.922	3.2548	2.78	0.66469
{'gini' }	0.20012	0.21472	0.74407	0.78255	0.80435	0.3667
{'min' }	2.2124	19	0	0	0	0.032314
{'max' }	19.983	64	1	398.19	397.69	1
{'pYis0' }	0	0	0.78697	0.55247	0.47746	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.21303	0.44753	0.52254	1
{'pYisMINY' }	0.0013504	0.076455	0.78697	0.55247	0.47746	0
{'pYisMAXY' }	2.7486e-16	0.010848	0.21303	2.793e-13	0	1.0081e-05
{'p0_01' }	2.2124	19	0	0	0	0.034868
{'p10' }	6.27	20	0	0	0	0.10409
{'p25' }	8.6057	22	0	0	0	0.15279
{'p50' }	13.358	29	0	0	0.024278	0.5868
{'p75' }	15.879	40	0	0.39819	0.39819	0.87122
{'p90' }	18.678	56	1	1.3439	1.1432	0.93297
{'p99_99' }	19.895	64	1	36.285	32.361	1
{'fl_cov_y_all' }	20.521	-17.522	-0.032533	-0.52819	-0.45327	0.34606
{'fl_cor_y_all' }	1	-0.29647	-0.01754	-0.12124	-0.11215	0.22126
{'fl_cov_age_ss' }	-17.522	170.23	-0.20471	4.8471	4.718	-2.4701
{'fl_cor_age_ss' }	-0.29647	1	-0.03832	0.38631	0.40529	-0.54833
{'fl_cov_educ_ss' }	-0.032533	-0.20471	0.16765	0.049186	0.048459	0.020745
{'fl_cor_educ_ss' }	-0.01754	-0.03832	1	0.12492	0.13265	0.14675
{'fl_cov_a_ss' }	-0.52819	4.8471	0.049186	0.92483	0.8434	-0.084302
{'fl_cor_a_ss' }	-0.12124	0.38631	0.12492	1	0.98295	-0.2539
{'fl_cov_ap_ss' }	-0.45327	4.718	0.048459	0.8434	0.79605	-0.10942
{'fl_cor_ap_ss' }	-0.11215	0.40529	0.13265	0.98295	1	-0.35521
{'fl_cov_MPC' }	0.34606	-2.4701	0.020745	-0.084302	-0.10942	0.1192
{'fl_cor_MPC' }	0.22126	-0.54833	0.14675	-0.2539	-0.35521	1
{'fl_cov_Mass' }	0.00078039	-0.0027161	-3.9482e-05	-6.7216e-05	-6.366e-05	3.6011e-05
{'fl_cor_Mass' }	0.46451	-0.56131	-0.26001	-0.18847	-0.19239	0.28124
{'fl_cov_c_ss' }	17.439	-14.787	-0.023601	-0.3598	-0.33058	0.3216
{'fl_cor_c_ss' }	0.99872	-0.29403	-0.014954	-0.097065	-0.096124	0.24166
{'fl_cov_y_head_inc' }	20.521	-17.522	-0.032533	-0.52819	-0.45327	0.34606
{'fl_cor_y_head_inc' }	1	-0.29647	-0.01754	-0.12124	-0.11215	0.22126
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	0.089391	-0.073038	4.4854e-05	-0.0017337	-0.0014405	0.0015499
{'fl_cor_yshr_nttxss'}	0.98636	-0.27981	0.0054758	-0.090112	-0.0807	0.22438
{'fracByP0_01' }	0.00023939	0.044084	0	0	0	6.2562e-05
{'fracByP10' }	0.040911	0.084908	0	0	0	0.013656
{'fracByP25' }	0.13262	0.1594	0	0	0	0.05313
{'fracByP50' }	0.35007	0.36471	0	0	0.0017253	0.20321
{'fracByP75' }	0.63781	0.60553	0	0.30171	0.16763	0.57091
{'fracByP90' }	0.86428	0.83573	1	0.71854	0.41327	0.81186
{'fracByP99_99' }	0.99998	1	1	0.98712	0.98539	0.99998

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =0, ybin =20 to 40
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC	
{'mean' }	27.297	41.429	0.27463	11.339	12.57	0.3048	0
{'unweighted_sum' }	84180	1909	1	6132.2	9.2287e+05	176.52	
{'sd' }	6.0833	15.414	0.44633	17.228	17.84	0.3859	0
{'coefofvar' }	0.22286	0.37207	1.6252	1.5194	1.4193	1.2661	
{'gini' }	0.11792	0.20805	0.65705	0.66364	0.67412	0.58124	
{'min' }	20.01	19	0	0	0	0.0007944	
{'max' }	39.996	64	1	874.82	874.03	1	
{'pYis0' }	0	0	0.72537	0.26218	0.2261	0	
{'pYls0' }	0	0	0	0	0	0	
{'pYgr0' }	1	1	0.27463	0.73782	0.7739	1	
{'pYisMINY' }	7.4977e-06	0.060866	0.72537	0.26218	0.2261	0.00024817	
{'pYisMAXY' }	6.128e-21	0.025807	0.27463	4.7709e-15	0	0.012672	
{'p0_01' }	20.082	19	0	0	0	0.0007944	2
{'p10' }	21.13	20	0	0	0	0.050943	2
{'p25' }	21.675	24	0	0	0.39819	0.05502	7
{'p50' }	24.441	45	0	3.1855	4.7748	0.069338	0
{'p75' }	32.831	55	1	17.072	19.115	0.58922	0
{'p90' }	35.402	61	1	36.285	37.638	0.99904	
{'p99_99' }	39.015	64	1	244.54	244.2	1	
{'fl_cov_y_all' }	37.006	-65.247	0.89435	-16.713	-19.269	1.6246	
{'fl_cor_y_all' }	1	-0.69582	0.32939	-0.15947	-0.17755	0.69203	
{'fl_cov_age_ss' }	-65.247	237.6	-0.34583	171.61	186.18	-4.4244	
{'fl_cor_age_ss' }	-0.69582	1	-0.050267	0.64622	0.67703	-0.74379	
{'fl_cov_educ_ss' }	0.89435	-0.34583	0.19921	1.4568	1.6073	0.010234	-0
{'fl_cor_educ_ss' }	0.32939	-0.050267	1	0.18946	0.20185	0.059416	
{'fl_cov_a_ss' }	-16.713	171.61	1.4568	296.79	306.84	-2.6899	-
{'fl_cor_a_ss' }	-0.15947	0.64622	0.18946	1	0.99833	-0.4046	
{'fl_cov_ap_ss' }	-19.269	186.18	1.6073	306.84	318.28	-3.0117	-
{'fl_cor_ap_ss' }	-0.17755	0.67703	0.20185	0.99833	1	-0.43746	
{'fl_cov_MPC' }	1.6246	-4.4244	0.010234	-2.6899	-3.0117	0.14892	9
{'fl_cor_MPC' }	0.69203	-0.74379	0.059416	-0.4046	-0.43746	1	
{'fl_cov_Mass' }	0.0018311	-0.005491	-6.1159e-05	-0.0034032	-0.0037278	9.9733e-05	2
{'fl_cor_Mass' }	0.56871	-0.67304	-0.25889	-0.37322	-0.39478	0.48828	
{'fl_cov_c_ss' }	32.273	-66.928	0.57252	-23.358	-26.801	1.6238	
{'fl_cor_c_ss' }	0.97926	-0.80144	0.23677	-0.25026	-0.27729	0.7767	
{'fl_cov_y_head_inc' }	37.006	-65.247	0.89435	-16.713	-19.269	1.6246	
{'fl_cor_y_head_inc' }	1	-0.69582	0.32939	-0.15947	-0.17755	0.69203	
{'fl_cov_y_spouse' }	0	0	0	0	0	0	
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN	
{'fl_cov_yshr_nttxss'}	0.070757	-0.12292	0.0019004	-0.027704	-0.032209	0.0030021	3
{'fl_cor_yshr_nttxss'}	0.99756	-0.68394	0.36517	-0.13792	-0.15484	0.6672	
{'fracByP0_01' }	0.00061088	0.027914	0	0	0	6.4681e-07	3
{'fracByP10' }	0.080291	0.053764	0	0	0	0.015677	
{'fracByP25' }	0.1947	0.13796	0	0	0.00077872	0.041343	
{'fracByP50' }	0.39838	0.35481	0	0.032985	0.037054	0.091144	
{'fracByP75' }	0.75483	0.65289	1	0.31379	0.27333	0.22522	
{'fracByP90' }	0.8648	0.88073	1	0.70008	0.58639	0.70837	
{'fracByP99_99' }	0.99994	1	1	0.9982	0.9978	1	

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =0, ybin =40 to 60
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	52.758	45.051	0.06275	68.176	76.474	0.1158
{'unweighted_sum' }	1.0615e+05	1909	1	10762	1.2537e+06	109
{'sd' }	5.4141	11.242	0.24251	66.501	70.914	0.21502

{'coefofvar' }	0.10262	0.24953	3.8647	0.97543	0.92729	1.8567
{'gini' }	0.056597	0.13986	0.93333	0.50195	0.5161	0.56281
{'min' }	40.029	19	0	0	0	0.0027394
{'max' }	59.999	64	1	1343.9	1342.7	1
{'pYis0' }	0	0	0.93725	0.12585	0.085683	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.06275	0.87415	0.91432	1
{'pYisMINY' }	0	0	0.93725	0.12585	0.085683	0.00074764
{'pYisMAXY' }	3.9045e-13	0.021282	0.06275	8.0627e-17	0	0.0087358
{'p0_01' }	40.137	24	0	0	0	0.0027394
{'p10' }	44.182	29	0	0	0.028815	0.040203
{'p25' }	49.179	35	0	6.2217	9.6274	0.042834
{'p50' }	54.412	46	0	49.774	58.412	0.048211
{'p75' }	57.129	54	0	109.35	123.79	0.059624
{'p90' }	58.386	60	0	167.99	182.22	0.34361
{'p99_99' }	59.781	64	1	244.54	259.5	1
{'fl_cov_y_all' }	29.312	53.308	-0.20389	289.17	313.63	-0.43462
{'fl_cor_y_all' }	1	0.87587	-0.15529	0.80315	0.8169	-0.37335
{'fl_cov_age_ss' }	53.308	126.37	-1.1451	659.92	718.58	-1.2133
{'fl_cor_age_ss' }	0.87587	1	-0.42003	0.88273	0.9014	-0.50195
{'fl_cov_educ_ss' }	-0.20389	-1.1451	0.058813	-4.2482	-4.7692	0.045918
{'fl_cor_educ_ss' }	-0.15529	-0.42003	1	-0.26342	-0.27732	0.8806
{'fl_cov_a_ss' }	289.17	659.92	-4.2482	4422.4	4711.7	-4.3008
{'fl_cor_a_ss' }	0.80315	0.88273	-0.26342	1	0.99912	-0.30078
{'fl_cov_ap_ss' }	313.63	718.58	-4.7692	4711.7	5028.8	-4.8458
{'fl_cor_ap_ss' }	0.8169	0.9014	-0.27732	0.99912	1	-0.31781
{'fl_cov_MPC' }	-0.43462	-1.2133	0.045918	-4.3008	-4.8458	0.046232
{'fl_cor_MPC' }	-0.37335	-0.50195	0.8806	-0.30078	-0.31781	1
{'fl_cov_Mass' }	-0.00065005	-0.0010879	5.0674e-06	-0.0030146	-0.0035638	1.5701e-05
{'fl_cor_Mass' }	-0.49801	-0.40138	0.08667	-0.18803	-0.20845	0.30289
{'fl_cov_c_ss' }	-1.676	-17.237	0.36254	-64.785	-73.509	0.20675
{'fl_cor_c_ss' }	-0.1136	-0.56267	0.54858	-0.35749	-0.38039	0.35285
{'fl_cov_y_head_inc' }	29.312	53.308	-0.20389	289.17	313.63	-0.43462
{'fl_cor_y_head_inc' }	1	0.87587	-0.15529	0.80315	0.8169	-0.37335
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	0.028346	0.051006	-0.00019386	0.26974	0.29325	-0.00043184
{'fl_cor_yshr_nttxss'}	0.99793	0.86482	-0.15237	0.77312	0.7882	-0.38282
{'fracByP0_01' }	0.017511	0.0057986	0	0	0	1.7686e-05
{'fracByP10' }	0.082421	0.073525	0	0	8.3328e-06	0.032318
{'fracByP25' }	0.21207	0.16699	0	0.0058151	0.0075561	0.083813
{'fracByP50' }	0.4603	0.40574	0	0.12511	0.11461	0.18288
{'fracByP75' }	0.72486	0.67924	0	0.42343	0.42049	0.29582
{'fracByP90' }	0.88898	0.87996	0	0.79755	0.73555	0.46604
{'fracByP99_99' }	1	1	1	0.99956	0.99961	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =0, ybin =60 to 80
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	69.683	49.64	0.65331	140.67	153.07	0.048936
{'unweighted_sum' }	1.3356e+05	1909	1	15665	1.6318e+06	84.021
{'sd' }	7.3989	10.207	0.47592	108.81	110.56	0.013961
{'coefofvar' }	0.10618	0.20562	0.72847	0.77349	0.72226	0.28529
{'gini' }	0.05972	0.11245	0.15539	0.39245	0.40548	0.14432
{'min' }	60.026	19	0	0	1.0392	0.00049995
{'max' }	79.98	64	1	1788.7	1787	0.097931
{'pYis0' }	0	0	0.34669	0.029685	0	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.65331	0.97032	1	1
{'pYisMINY' }	0	0	0.34669	0.029685	0.025086	1.4138e-10
{'pYisMAXY' }	6.6355e-12	0.043527	0.65331	3.1064e-14	0	0.025086
{'p0_01' }	60.051	31	0	0	1.0392	0.0070204

{'p10' }	60.588	35	0	6.2217	10.751	0.039193
{'p25' }	61.989	41	0	36.285	50.064	0.041334
{'p50' }	70.551	51	1	136.58	149	0.048263
{'p75' }	77.126	59	1	244.54	256.32	0.057126
{'p90' }	78.807	62	1	290.28	302.7	0.062509
{'p99_99' }	79.79	64	1	688.07	688.69	0.097931
{'fl_cov_y_all' }	54.744	-15.213	2.7349	-305.67	-284.47	-0.03514
{'fl_cor_y_all' }	1	-0.20144	0.77669	-0.37969	-0.34776	-0.34018
{'fl_cov_age_ss' }	-15.213	104.18	-3.4433	1010.3	1043.3	0.070815
{'fl_cor_age_ss' }	-0.20144	1	-0.70885	0.90971	0.92453	0.49694
{'fl_cov_educ_ss' }	2.7349	-3.4433	0.2265	-43.031	-42.868	-0.0029977
{'fl_cor_educ_ss' }	0.77669	-0.70885	1	-0.83098	-0.81474	-0.45117
{'fl_cov_a_ss' }	-305.67	1010.3	-43.031	11839	12018	0.79458
{'fl_cor_a_ss' }	-0.37969	0.90971	-0.83098	1	0.99903	0.52306
{'fl_cov_ap_ss' }	-284.47	1043.3	-42.868	12018	12223	0.80523
{'fl_cor_ap_ss' }	-0.34776	0.92453	-0.81474	0.99903	1	0.52169
{'fl_cov_MPC' }	-0.03514	0.070815	-0.0029977	0.79458	0.80523	0.00019492
{'fl_cor_MPC' }	-0.34018	0.49694	-0.45117	0.52306	0.52169	1
{'fl_cov_Mass' }	-0.00047775	7.5243e-05	-1.9567e-05	0.0015358	0.001352	4.4723e-07
{'fl_cor_Mass' }	-0.5968	0.068134	-0.38	0.13046	0.11303	0.29608
{'fl_cov_c_ss' }	20.793	-44.669	1.9361	-413.44	-423.57	-0.037651
{'fl_cor_c_ss' }	0.55022	-0.85684	0.79649	-0.74395	-0.75011	-0.528
{'fl_cov_y_head_inc' }	54.744	-15.213	2.7349	-305.67	-284.47	-0.03514
{'fl_cor_y_head_inc' }	1	-0.20144	0.77669	-0.37969	-0.34776	-0.34018
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	0.034768	-0.010576	0.0017576	-0.20158	-0.18854	-2.3518e-05
{'fl_cor_yshr_nttxss'}	0.99923	-0.22034	0.78532	-0.39394	-0.36263	-0.3582
{'fracByP0_01' }	0.021619	0.015678	0	0	0.00017031	1.5919e-05
{'fracByP10' }	0.093108	0.080304	0	0.0019166	0.0033485	0.05976
{'fracByP25' }	0.22399	0.19342	0	0.026758	0.033967	0.1775
{'fracByP50' }	0.46245	0.42442	1	0.24122	0.18827	0.40034
{'fracByP75' }	0.71881	0.71654	1	0.67568	0.52607	0.6694
{'fracByP90' }	0.89007	0.89604	1	0.86905	0.79292	0.87639
{'fracByP99_99' }	0.99997	1	1	1	0.99964	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =0, ybin =80 to 100
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC	
{'mean' }	85.025	34.156	0.48413	99.309	105.7	0.40477	
{'unweighted_sum' }	1.3006e+05	1909	1	22077	2.0122e+06	103.96	
{'sd' }	5.4636	17.045	0.49975	146.88	154.98	0.41744	
{'coefofvar' }	0.064259	0.49903	1.0323	1.479	1.4663	1.0313	
{'gini' }	0.032971	0.25826	0.35471	0.7167	0.73281	0.50641	
{'min' }	80.002	19	0	0	0	0.027464	
{'max' }	99.95	64	1	2322.2	2320.1	1	
{'pYis0' }	0	0	0.51587	0.35848	0.28081	0	
{'pYls0' }	0	0	0	0	0	0	
{'pYgr0' }	1	1	0.48413	0.64152	0.71919	1	
{'pYisMINY' }	0.0056437	0.11743	0.51587	0.35848	0.28081	0.017898	
{'pYisMAXY' }	0	0.027992	0.48413	2.6122e-18	0	0.027464	
{'p0_01' }	80.002	19	0	0	0	0.027464	
{'p10' }	80.626	19	0	0	0	0.047988	
{'p25' }	80.679	21	0	0	0	0.055747	
{'p50' }	82.729	24	0	1.3439	1.3439	0.16229	
{'p75' }	87.966	54	1	244.54	258.48	0.99974	
{'p90' }	95.504	61	1	341.4	359.64	1	
{'p99_99' }	99.158	64	1	874.82	874.82	1	
{'fl_cov_y_all' }	29.851	-12.48	-0.7742	-122.72	-135.12	0.02434	
{'fl_cor_y_all' }	1	-0.13401	-0.28355	-0.15293	-0.15957	0.010672	
{'fl_cov_age_ss' }	-12.48	290.52	6.0217	2389	2536.1	-4.2684	
{'fl_cor_age_ss' }	-0.13401	1	0.70693	0.95427	0.96005	-0.5999	

{'fl_cov_educ_ss' }	-0.7742	6.0217	0.24975	50.697	53.904	-0.061764	
{'fl_cor_educ_ss' }	-0.28355	0.70693	1	0.69068	0.69597	-0.29607	
{'fl_cov_a_ss' }	-122.72	2389	50.697	21573	22758	-34.481	
{'fl_cor_a_ss' }	-0.15293	0.95427	0.69068	1	0.99975	-0.56238	
{'fl_cov_ap_ss' }	-135.12	2536.1	53.904	22758	24019	-36.816	
{'fl_cor_ap_ss' }	-0.15957	0.96005	0.69597	0.99975	1	-0.56908	
{'fl_cov_MPC' }	0.02434	-4.2684	-0.061764	-34.481	-36.816	0.17425	
{'fl_cor_MPC' }	0.010672	-0.5999	-0.29607	-0.56238	-0.56908	1	
{'fl_cov_Mass' }	-0.000134	-0.0048784	-0.00013986	-0.038608	-0.04097	4.4853e-05	
{'fl_cor_Mass' }	-0.058144	-0.67852	-0.66345	-0.62315	-0.62671	0.25473	
{'fl_cov_c_ss' }	35.114	-156.56	-3.7953	-1277.5	-1364.2	2.3541	
{'fl_cor_c_ss' }	0.60358	-0.86263	-0.71323	-0.81687	-0.82668	0.52964	
{'fl_cov_y_head_inc' }	29.851	-12.48	-0.7742	-122.72	-135.12	0.02434	
{'fl_cor_y_head_inc' }	1	-0.13401	-0.28355	-0.15293	-0.15957	0.010672	
{'fl_cov_y_spouse' }	0	0	0	0	0	0	
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN	
{'fl_cov_yshr_nttxss'}	0.013599	-0.0053097	-0.00034674	-0.051449	-0.056955	2.2562e-05	
{'fl_cor_yshr_nttxss'}	0.99925	-0.12507	-0.27855	-0.14063	-0.14754	0.0217	
{'fracByP0_01' }	0.0053103	0.065326	0	0	0	0.0012144	
{'fracByP10' }	0.15806	0.065326	0	0	0	0.010461	
{'fracByP25' }	0.33533	0.18252	0	0	0	0.02994	
{'fracByP50' }	0.47648	0.32285	0	0.002784	0.0017682	0.080649	
{'fracByP75' }	0.72658	0.57734	1	0.33786	0.18613	0.46966	
{'fracByP90' }	0.89975	0.85473	1	0.73274	0.61473	0.79836	
{'fracByP99_99' }	0.99991	1	1	0.99941	0.99928	1	

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =0, ybin =100 to 1414.0634
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	206.65	46.061	0.26405	488.17	531.81	0.093525
{'unweighted_sum' }	8.9657e+06	1909	1	1.0976e+05	6.5708e+07	969.07
{'sd' }	137.53	12.093	0.44082	669.68	710.6	0.202
{'coefofvar' }	0.66554	0.26254	1.6695	1.3718	1.3362	2.1598
{'gini' }	0.27888	0.14493	0.67227	0.57584	0.5748	0.5487
{'min' }	100.05	19	0	0	0	7.2987e-07
{'max' }	1413.7	64	1	7837.6	8384.3	1
{'pYis0' }	0	0	0.73595	0.064348	0.048517	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.26405	0.93565	0.95148	1
{'pYisMINY' }	0	0.0090716	0.73595	0.064348	0.048517	6.9468e-06
{'pYisMAXY' }	3.7367e-07	0.029799	0.26405	0.0011993	3.7367e-07	5.6938e-07
{'p0_01' }	101.26	19	0	0	0	7.3743e-07
{'p10' }	117.96	29	0	3.1855	6.9197	0.034852
{'p25' }	136.39	36	0	66.249	85.522	0.04072
{'p50' }	151.42	48	0	290.28	338.46	0.046881
{'p75' }	211.31	56	1	688.07	727.89	0.055292
{'p90' }	367.68	61	1	1092.6	1161.4	0.061922
{'p99_99' }	1401.3	64	1	7837.6	8379.2	1
{'fl_cov_y_all' }	18915	214.22	11.608	67863	73214	-1.2179
{'fl_cor_y_all' }	1	0.1288	0.19147	0.73682	0.74914	-0.04384
{'fl_cov_age_ss' }	214.22	146.23	-0.43525	4666.7	4944.5	-1.0322
{'fl_cor_age_ss' }	0.1288	1	-0.081649	0.57626	0.5754	-0.42258
{'fl_cov_educ_ss' }	11.608	-0.43525	0.19433	29.677	32.085	0.020037
{'fl_cor_educ_ss' }	0.19147	-0.081649	1	0.10053	0.10243	0.22502
{'fl_cov_a_ss' }	67863	4666.7	29.677	4.4847e+05	4.7569e+05	-21.916
{'fl_cor_a_ss' }	0.73682	0.57626	0.10053	1	0.99961	-0.16202
{'fl_cov_ap_ss' }	73214	4944.5	32.085	4.7569e+05	5.0495e+05	-24.02
{'fl_cor_ap_ss' }	0.74914	0.5754	0.10243	0.99961	1	-0.16734
{'fl_cov_MPC' }	-1.2179	-1.0322	0.020037	-21.916	-24.02	0.040803
{'fl_cor_MPC' }	-0.04384	-0.42258	0.22502	-0.16202	-0.16734	1
{'fl_cov_Mass' }	-0.0061651	-0.00035738	-1.1831e-05	-0.021737	-0.02365	2.8828e-06
{'fl_cor_Mass' }	-0.40936	-0.26989	-0.24509	-0.29641	-0.30394	0.13033

{'fl_cov_c_ss' }	8749.9	-117.53	6.2703	23360	25303	1.1966
{'fl_cor_c_ss' }	0.94001	-0.1436	0.21017	0.5154	0.52613	0.087525
{'fl_cov_y_head_inc' }	18915	214.22	11.608	67863	73214	-1.2179
{'fl_cor_y_head_inc' }	1	0.1288	0.19147	0.73682	0.74914	-0.04384
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	1.2472	0.027507	0.0013089	4.2682	4.6007	-6.8087e-05
{'fl_cor_yshr_nttxss'}	0.85743	0.21507	0.28073	0.6026	0.61213	-0.031869
{'fracByP0_01' }	0.00026076	0.003742	0	0	0	1.0148e-09
{'fracByP10' }	0.052866	0.064381	0	0.00021419	0.00042371	0.019652
{'fracByP25' }	0.14712	0.15911	0	0.010132	0.011418	0.081983
{'fracByP50' }	0.32305	0.40903	0	0.10255	0.10948	0.19845
{'fracByP75' }	0.53804	0.67726	1	0.39994	0.35634	0.33479
{'fracByP90' }	0.7486	0.87613	1	0.61485	0.605	0.42739
{'fracByP99_99' }	0.99942	1	1	1	0.99865	0.99998

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0 and kids =1
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =1, ybin =0 to 20
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	13.368	30.272	0.17045	0.0534	0.035899	0.82493
{'unweighted_sum' }	36580	1909	1	2195	2.92e+05	578.39
{'sd' }	4.6824	9.0005	0.37603	0.31468	0.24751	0.16138
{'coefofvar' }	0.35027	0.29732	2.2061	5.8928	6.8945	0.19563
{'gini' }	0.19105	0.15792	0.80148	0.9127	0.94765	0.092762
{'min' }	2.2124	19	0	0	0	0.035921
{'max' }	19.983	64	1	398.19	396.17	1
{'pYis0' }	0	0	0.82955	0.83207	0.86668	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.17045	0.16793	0.13332	1
{'pYisMINY' }	0.00064915	0.035237	0.82955	0.83207	0.86668	0
{'pYisMAXY' }	1.0434e-16	0.0010939	0.17045	2.2116e-14	0	5.4177e-05
{'p0_01' }	2.2124	19	0	0	0	0.10951
{'p10' }	6.4629	21	0	0	0	0.64284
{'p25' }	8.6837	23	0	0	0	0.78924
{'p50' }	14.409	28	0	0	0	0.85494
{'p75' }	17.194	35	0	0	0	0.93441
{'p90' }	18.999	43	1	0.049774	0.049774	0.94152
{'p99_99' }	19.857	64	1	10.751	6.2217	1
{'fl_cov_y_all' }	21.925	-5.5347	-0.12036	-0.060499	-0.033281	0.2628
{'fl_cor_y_all' }	1	-0.13133	-0.068359	-0.04106	-0.028717	0.34777
{'fl_cov_age_ss' }	-5.5347	81.01	0.024262	0.097364	-0.076084	-0.23814
{'fl_cor_age_ss' }	-0.13133	1	0.0071688	0.034377	-0.034154	-0.16395
{'fl_cov_educ_ss' }	-0.12036	0.024262	0.1414	0.0079776	0.0030175	0.0096121
{'fl_cor_educ_ss' }	-0.068359	0.0071688	1	0.067421	0.032422	0.15839
{'fl_cov_a_ss' }	-0.060499	0.097364	0.0079776	0.09902	0.071973	-0.012629
{'fl_cor_a_ss' }	-0.04106	0.034377	0.067421	1	0.92411	-0.24868
{'fl_cov_ap_ss' }	-0.033281	-0.076084	0.0030175	0.071973	0.061259	-0.015348
{'fl_cor_ap_ss' }	-0.028717	-0.034154	0.032422	0.92411	1	-0.38424
{'fl_cov_MPC' }	0.2628	-0.23814	0.0096121	-0.012629	-0.015348	0.026045
{'fl_cor_MPC' }	0.34777	-0.16395	0.15839	-0.24868	-0.38424	1
{'fl_cov_Mass' }	0.00037454	-0.00042816	-1.8771e-05	-1.935e-06	-5.9116e-07	4.7529e-06
{'fl_cor_Mass' }	0.61488	-0.36568	-0.38374	-0.04727	-0.01836	0.22639
{'fl_cov_c_ss' }	18.659	-4.5799	-0.094784	-0.022242	-0.015999	0.22678
{'fl_cor_c_ss' }	0.99936	-0.12761	-0.063213	-0.017726	-0.016211	0.3524
{'fl_cov_y_head_inc' }	21.925	-5.5347	-0.12036	-0.060499	-0.033281	0.2628
{'fl_cor_y_head_inc' }	1	-0.13133	-0.068359	-0.04106	-0.028717	0.34777
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	0.094086	-0.025073	-0.00035729	-0.00013174	-5.0834e-05	0.001133

{'fl_cor_yshr_nttxss'}	0.98781	-0.13695	-0.046711	-0.020582	-0.010097	0.34514
{'fracByP0_01' }	0.00010743	0.022116	0	0	0	1.1697e-05
{'fracByP10' }	0.039115	0.09526	0	0	0	0.052279
{'fracByP25' }	0.12744	0.18233	0	0	0	0.18667
{'fracByP50' }	0.3901	0.39282	0	0	0	0.45018
{'fracByP75' }	0.65511	0.67355	0	0	0	0.73399
{'fracByP90' }	0.86286	0.8376	1	0.068181	0.062274	0.89198
{'fracByP99_99' }	0.99985	1	1	0.97169	0.95442	0.99993

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =1, ybin =20 to 40
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	28.462	35.422	0.28619	1.8478	1.8117	0.68226
{'unweighted_sum' }	84180	1909	1	6132.2	9.1152e+05	244.59
{'sd' }	6.5377	12.681	0.45198	7.3714	7.3021	0.3369
{'coefofvar' }	0.2297	0.35801	1.5793	3.9893	4.0305	0.4938
{'gini' }	0.12301	0.20121	0.64033	0.9386	0.95086	0.25614
{'min' }	20.01	19	0	0	0	0.029391
{'max' }	39.996	64	1	874.82	870.9	1
{'pYis0' }	0	0	0.71381	0.69252	0.70545	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.28619	0.30748	0.29455	1
{'pYisMINY' }	2.1227e-06	0.038161	0.71381	0.69252	0.70545	0.00014395
{'pYisMAXY' }	2.3221e-21	0.0035403	0.28619	5.6879e-16	0	0.016486
{'p0_01' }	20.082	19	0	0	0	0.029391
{'p10' }	20.692	21	0	0	0	0.079851
{'p25' }	21.468	23	0	0	0	0.46828
{'p50' }	29.796	37	0	0	0	0.77246
{'p75' }	34.124	46	1	0.39819	0.39819	0.99694
{'p90' }	37.85	53	1	3.1855	2.4503	0.99995
{'p99_99' }	39.015	64	1	167.99	162.83	1
{'fl_cov_y_all' }	42.742	-59.153	0.27641	-3.0355	-2.8013	0.75997
{'fl_cor_y_all' }	1	-0.71349	0.093541	-0.062988	-0.058678	0.34504
{'fl_cov_age_ss' }	-59.153	160.82	0.42361	34.214	34.587	-2.8043
{'fl_cor_age_ss' }	-0.71349	1	0.073906	0.366	0.37351	-0.65639
{'fl_cov_educ_ss' }	0.27641	0.42361	0.20429	0.38575	0.41349	-0.014001
{'fl_cor_educ_ss' }	0.093541	0.073906	1	0.11578	0.12528	-0.09195
{'fl_cov_a_ss' }	-3.0355	34.214	0.38575	54.337	53.759	-1.089
{'fl_cor_a_ss' }	-0.062988	0.366	0.11578	1	0.99874	-0.43852
{'fl_cov_ap_ss' }	-2.8013	34.587	0.41349	53.759	53.32	-1.0995
{'fl_cor_ap_ss' }	-0.058678	0.37351	0.12528	0.99874	1	-0.44693
{'fl_cov_MPC' }	0.75997	-2.8043	-0.014001	-1.089	-1.0995	0.1135
{'fl_cor_MPC' }	0.34504	-0.65639	-0.09195	-0.43852	-0.44693	1
{'fl_cov_Mass' }	0.00070555	-0.0015197	-3.8251e-05	-0.00035204	-0.00034489	3.3368e-05
{'fl_cor_Mass' }	0.56074	-0.62264	-0.43973	-0.24815	-0.24541	0.51462
{'fl_cov_c_ss' }	34.068	-47.824	0.20019	-1.8289	-1.7805	0.61726
{'fl_cor_c_ss' }	0.99747	-0.72187	0.08478	-0.047492	-0.046675	0.3507
{'fl_cov_y_head_inc' }	42.742	-59.153	0.27641	-3.0355	-2.8013	0.75997
{'fl_cor_y_head_inc' }	1	-0.71349	0.093541	-0.062988	-0.058678	0.34504
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	0.080942	-0.11105	0.00076758	-0.004609	-0.0041334	0.0013166
{'fl_cor_yshr_nttxss'}	0.99695	-0.70516	0.13675	-0.050348	-0.045581	0.31469
{'fracByP0_01' }	0.01433	0.020469	0	0	0	6.2011e-06
{'fracByP10' }	0.072102	0.088165	0	0	0	0.0086865
{'fracByP25' }	0.18335	0.16875	0	0	0	0.060673
{'fracByP50' }	0.4006	0.34388	0	0	0	0.30591
{'fracByP75' }	0.70968	0.65471	1	0.027791	0.0052494	0.67579
{'fracByP90' }	0.91879	0.85701	1	0.10404	0.07139	0.88957
{'fracByP99_99' }	0.99999	1	1	0.99235	0.98896	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =1, ybin =40 to 60

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	49.535	39.01	0.0958	17.684	19.939	0.39667
{'unweighted_sum' }	1.0615e+05	1909	1	10762	1.2401e+06	139.14
{'sd' }	4.8781	9.3617	0.29432	36.286	38.539	0.41191
{'coefofvar' }	0.098479	0.23998	3.0722	2.0519	1.9328	1.0384
{'gini' }	0.056543	0.13441	0.89511	0.81938	0.81494	0.51745
{'min' }	40.029	19	0	0	0	0.0058034
{'max' }	59.999	64	1	1343.9	1338	1
{'pYis0' }	0	0	0.9042	0.45915	0.41308	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.0958	0.54085	0.58692	1
{'pYisMINY' }	0	0	0.9042	0.45915	0.41308	0.00012414
{'pYisMAXY' }	3.8269e-14	0.0026972	0.0958	8.5328e-18	0	0.013618
{'p0_01' }	40.137	24	0	0	0	0.0058034
{'p10' }	42.246	28	0	0	0	0.045709
{'p25' }	45.891	31	0	0	0	0.051144
{'p50' }	50.4	38	0	0.39819	1.3439	0.069145
{'p75' }	53.292	46	0	17.072	21.374	0.89031
{'p90' }	55.513	52	0	66.249	69.521	0.94835
{'p99_99' }	59.781	64	1	244.54	253.77	1
{'fl_cov_y_all' }	23.796	37.466	0.027935	108.59	119.53	-1.4584
{'fl_cor_y_all' }	1	0.82041	0.019457	0.61347	0.63579	-0.72584
{'fl_cov_age_ss' }	37.466	87.641	-1.1627	240.57	267.85	-3.1928
{'fl_cor_age_ss' }	0.82041	1	-0.42197	0.7082	0.74242	-0.82797
{'fl_cov_educ_ss' }	0.027935	-1.1627	0.086622	-1.6905	-1.9066	0.056301
{'fl_cor_educ_ss' }	0.019457	-0.42197	1	-0.1583	-0.1681	0.46441
{'fl_cov_a_ss' }	108.59	240.57	-1.6905	1316.6	1395.9	-6.0182
{'fl_cor_a_ss' }	0.61347	0.7082	-0.1583	1	0.99819	-0.40266
{'fl_cov_ap_ss' }	119.53	267.85	-1.9066	1395.9	1485.2	-6.8004
{'fl_cor_ap_ss' }	0.63579	0.74242	-0.1681	0.99819	1	-0.42839
{'fl_cov_MPC' }	-1.4584	-3.1928	0.056301	-6.0182	-6.8004	0.16967
{'fl_cor_MPC' }	-0.72584	-0.82797	0.46441	-0.40266	-0.42839	1
{'fl_cov_Mass' }	-0.00058775	-0.00099983	-1.5854e-07	-0.0025019	-0.0027857	4.6488e-05
{'fl_cor_Mass' }	-0.72179	-0.6398	-0.0032269	-0.41305	-0.43302	0.6761
{'fl_cov_c_ss' }	7.5901	1.8816	0.23768	5.144	3.5258	-0.35434
{'fl_cor_c_ss' }	0.5668	0.073216	0.29418	0.051642	0.033327	-0.31337
{'fl_cov_y_head_inc' }	23.796	37.466	0.027935	108.59	119.53	-1.4584
{'fl_cor_y_head_inc' }	1	0.82041	0.019457	0.61347	0.63579	-0.72584
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	0.023946	0.037486	2.2256e-05	0.10344	0.11418	-0.001499
{'fl_cor_yshr_nttxss'}	0.998	0.8141	0.015374	0.57955	0.60236	-0.73989
{'fracByP0_01' }	0.030398	0.0092583	0	0	0	1.8163e-06
{'fracByP10' }	0.10179	0.099174	0	0	0	0.0097133
{'fracByP25' }	0.23702	0.19994	0	0	0	0.02778
{'fracByP50' }	0.46097	0.41472	0	0.00097577	0.0026443	0.064117
{'fracByP75' }	0.72311	0.68882	0	0.11283	0.10994	0.42159
{'fracByP90' }	0.88671	0.86063	0	0.46176	0.40631	0.79119
{'fracByP99_99' }	1	1	1	0.99979	0.99982	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =1, ybin =60 to 80
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	71.529	43.037	0.96258	43.827	49.432	0.17652
{'unweighted_sum' }	1.3356e+05	1909	1	15665	1.6155e+06	98.943
{'sd' }	5.5476	8.2633	0.18979	63.47	66.312	0.28361
{'coefofvar' }	0.077558	0.19201	0.19717	1.4482	1.3415	1.6066
{'gini' }	0.04342	0.10711	0.0014526	0.66356	0.65265	0.60232

{'min'}	60.026	19	0	0	0	0.0038519
{'max'}	79.98	64	1	1788.7	1781	0.90299
{'pYis0'}	0	0	0.03742	0.21521	0.16079	0
{'pYls0'}	0	0	0	0	0	0
{'pYgr0'}	1	1	0.96258	0.78479	0.83921	1
{'pYisMINY'}	0	0	0.03742	0.21521	0.16079	1.8509e-07
{'pYisMAXY'}	3.0549e-12	0.0052142	0.96258	2.7101e-15	0	0.045691
{'p0_01'}	60.051	31	0	0	0	0.006029
{'p10'}	62.057	33	1	0	0	0.041692
{'p25'}	67.098	36	1	0.39819	2.0654	0.046076
{'p50'}	73.41	42	1	17.072	22.624	0.052247
{'p75'}	75.714	49	1	66.249	72.996	0.070667
{'p90'}	77.438	55	1	136.58	144.6	0.8906
{'p99_99'}	79.79	64	1	605.6	603.36	0.90299
{'fl_cov_y_all'}	30.776	28.313	0.36859	87.417	107.99	-1.1549
{'fl_cor_y_all'}	1	0.61763	0.35008	0.24827	0.29355	-0.73405
{'fl_cov_age_ss'}	28.313	68.282	-0.59775	426.52	463.28	-1.345
{'fl_cor_age_ss'}	0.61763	1	-0.38115	0.81324	0.84547	-0.57394
{'fl_cov_educ_ss'}	0.36859	-0.59775	0.03602	-7.9924	-7.9854	0.0042738
{'fl_cor_educ_ss'}	0.35008	-0.38115	1	-0.66349	-0.6345	0.079402
{'fl_cov_a_ss'}	87.417	426.52	-7.9924	4028.5	4200.9	-5.3149
{'fl_cor_a_ss'}	0.24827	0.81324	-0.66349	1	0.9981	-0.29526
{'fl_cov_ap_ss'}	107.99	463.28	-7.9854	4200.9	4397.3	-6.023
{'fl_cor_ap_ss'}	0.29355	0.84547	-0.6345	0.9981	1	-0.32026
{'fl_cov_MPC'}	-1.1549	-1.345	0.0042738	-5.3149	-6.023	0.080432
{'fl_cor_MPC'}	-0.73405	-0.57394	0.079402	-0.29526	-0.32026	1
{'fl_cov_Mass'}	-0.00016946	-0.00023163	1.1428e-06	-0.0011513	-0.0012738	1.0195e-05
{'fl_cor_Mass'}	-0.6611	-0.60665	0.13032	-0.39256	-0.41573	0.77798
{'fl_cov_c_ss'}	3.0337	-15.06	0.27597	-105.53	-113.81	-0.17837
{'fl_cor_c_ss'}	0.16782	-0.5593	0.44624	-0.51023	-0.52669	-0.19301
{'fl_cov_y_head_inc'}	30.776	28.313	0.36859	87.417	107.99	-1.1549
{'fl_cor_y_head_inc'}	1	0.61763	0.35008	0.24827	0.29355	-0.73405
{'fl_cov_y_spouse'}	0	0	0	0	0	0
{'fl_cor_y_spouse'}	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	0.019518	0.01744	0.00024135	0.049496	0.062267	-0.00074926
{'fl_cor_yshr_nttxss'}	0.99881	0.59919	0.36103	0.22139	0.26658	-0.75003
{'fracByP0_01'}	0.038357	0.032915	0	0	0	0.00013789
{'fracByP10'}	0.095928	0.10021	1	0	0	0.016296
{'fracByP25'}	0.22141	0.20606	1	0.00028287	0.0015853	0.056137
{'fracByP50'}	0.46971	0.43788	1	0.053592	0.054368	0.12309
{'fracByP75'}	0.73403	0.71051	1	0.30897	0.27429	0.20331
{'fracByP90'}	0.89119	0.87199	1	0.64546	0.583	0.55836
{'fracByP99_99'}	0.99999	1	1	0.9993	0.99877	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =1, ybin =80 to 100
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean'}	87.255	25.264	0.19745	19.607	20.288	0.80645
{'unweighted_sum'}	1.3006e+05	1909	1	22077	1.9952e+06	127.17
{'sd'}	6.3397	9.0873	0.39807	72.105	74.69	0.30741
{'coefofvar'}	0.072656	0.3597	2.0161	3.6774	3.6816	0.38119
{'gini'}	0.038841	0.13374	0.76537	0.94156	0.95297	0.15806
{'min'}	80.002	19	0	0	0	0.032796
{'max'}	99.95	64	1	2322.2	2312.4	1
{'pYis0'}	0	0	0.80255	0.58034	0.63996	0
{'pYls0'}	0	0	0	0	0	0
{'pYgr0'}	1	1	0.19745	0.41966	0.36004	1
{'pYisMINY'}	0.001419	0.077833	0.80255	0.58034	0.63996	1.8364e-09
{'pYisMAXY'}	0	0.0039142	0.19745	3.445e-19	0	0.030476
{'p0_01'}	80.002	19	0	0	0	0.042988
{'p10'}	80.679	20	0	0	0	0.25793
{'p25'}	80.679	21	0	0	0	0.91392

{'p50' }	86.982	23	0	0	0	0.95958
{'p75' }	92.997	25	0	1.3439	1.3439	0.99998
{'p90' }	95.86	27	1	1.3439	1.3439	1
{'p99_99' }	98.633	64	1	688.07	688.07	1
{'fl_cov_y_all' }	40.191	2.3083	-0.40829	-81.449	-84.888	0.89385
{'fl_cor_y_all' }	1	0.040067	-0.16179	-0.17818	-0.17927	0.45866
{'fl_cov_age_ss' }	2.3083	82.579	1.8005	615.19	639.24	-1.5177
{'fl_cor_age_ss' }	0.040067	1	0.49773	0.93887	0.94182	-0.5433
{'fl_cov_educ_ss' }	-0.40829	1.8005	0.15846	15.422	16.004	-0.03272
{'fl_cor_educ_ss' }	-0.16179	0.49773	1	0.53728	0.53826	-0.26738
{'fl_cov_a_ss' }	-81.449	615.19	15.422	5199.2	5384.8	-14.375
{'fl_cor_a_ss' }	-0.17818	0.93887	0.53728	1	0.99985	-0.64851
{'fl_cov_ap_ss' }	-84.888	639.24	16.004	5384.8	5578.6	-15.019
{'fl_cor_ap_ss' }	-0.17927	0.94182	0.53826	0.99985	1	-0.65411
{'fl_cov_MPC' }	0.89385	-1.5177	-0.03272	-14.375	-15.019	0.094499
{'fl_cor_MPC' }	0.45866	-0.5433	-0.26738	-0.64851	-0.65411	1
{'fl_cov_Mass' }	0.00012785	-0.00047412	-2.9548e-05	-0.0040181	-0.0041715	1.067e-05
{'fl_cor_Mass' }	0.15467	-0.40014	-0.5693	-0.42739	-0.42835	0.26621
{'fl_cov_c_ss' }	34.021	-22.3	-0.89289	-247.58	-258.44	1.3245
{'fl_cor_c_ss' }	0.88524	-0.40482	-0.37001	-0.56641	-0.5708	0.71076
{'fl_cov_y_head_inc' }	40.191	2.3083	-0.40829	-81.449	-84.888	0.89385
{'fl_cor_y_head_inc' }	1	0.040067	-0.16179	-0.17818	-0.17927	0.45866
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	0.018168	0.0010556	-0.00018476	-0.036499	-0.038057	0.0004139
{'fl_cor_yshr_nttxss'}	0.99928	0.040505	-0.16184	-0.17651	-0.17768	0.46951
{'fracByP0_01' }	0.0013011	0.058536	0	0	0	4.8799e-06
{'fracByP10' }	0.29993	0.14734	0	0	0	0.028995
{'fracByP25' }	0.29993	0.25213	0	0	0	0.18387
{'fracByP50' }	0.53978	0.48257	0	0	0	0.39304
{'fracByP75' }	0.77173	0.65833	0	0.016928	0.0080263	0.79897
{'fracByP90' }	0.90461	0.83757	1	0.016928	0.013426	0.96221
{'fracByP99_99' }	0.99996	1	1	0.99812	0.99644	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =1, ybin =100 to 1414.0634
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	191.72	39.373	0.28771	169.48	188.45	0.24127
{'unweighted_sum' }	8.9657e+06	1909	1	1.0976e+05	6.4864e+07	1200.2
{'sd' }	126.17	10.019	0.4527	377.89	402.84	0.3505
{'coefofvar' }	0.65811	0.25446	1.5734	2.2297	2.1377	1.4527
{'gini' }	0.27962	0.14228	0.63813	0.76214	0.75383	0.63524
{'min' }	100.05	19	0	0	0	2.6006e-05
{'max' }	1413.7	64	1	7837.6	8288	1
{'pYis0' }	0	0	0.71229	0.2532	0.21919	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.28771	0.7468	0.78081	1
{'pYisMINY' }	0	0.0053953	0.71229	0.2532	0.21919	0
{'pYisMAXY' }	5.2427e-08	0.0038772	0.28771	0.00024506	5.489e-07	1.1802e-05
{'p0_01' }	101.26	19	0	0	0	3.6135e-05
{'p10' }	110.09	27	0	0	0	0.039381
{'p25' }	122.7	31	0	0	1.3439	0.04579
{'p50' }	139.22	39	0	36.285	47.782	0.053529
{'p75' }	203.64	47	1	167.99	215.54	0.1699
{'p90' }	331.86	53	1	460.95	507.55	0.91906
{'p99_99' }	1387.5	64	1	7837.6	8275.1	1
{'fl_cov_y_all' }	15919	141.6	10.693	28014	30718	-4.6866
{'fl_cor_y_all' }	1	0.11202	0.18722	0.58757	0.60437	-0.10598
{'fl_cov_age_ss' }	141.6	100.38	-0.20988	2092.6	2266.5	-2.3952
{'fl_cor_age_ss' }	0.11202	1	-0.046274	0.5527	0.56156	-0.68207
{'fl_cov_educ_ss' }	10.693	-0.20988	0.20493	17.719	19.455	0.027387
{'fl_cor_educ_ss' }	0.18722	-0.046274	1	0.10358	0.10668	0.17261

{'fl_cov_a_ss' }	28014	2092.6	17.719	1.428e+05	1.5212e+05	-32.434
{'fl_cor_a_ss' }	0.58757	0.5527	0.10358	1	0.99927	-0.24488
{'fl_cov_ap_ss' }	30718	2266.5	19.455	1.5212e+05	1.6228e+05	-36.16
{'fl_cor_ap_ss' }	0.60437	0.56156	0.10668	0.99927	1	-0.2561
{'fl_cov_MPC' }	-4.6866	-2.3952	0.027387	-32.434	-36.16	0.12285
{'fl_cor_MPC' }	-0.10598	-0.68207	0.17261	-0.24488	-0.2561	1
{'fl_cov_Mass' }	-0.0024859	-0.00028042	-3.3938e-06	-0.0060342	-0.0066436	1.1235e-05
{'fl_cor_Mass' }	-0.32473	-0.46129	-0.12356	-0.26318	-0.27181	0.52831
{'fl_cov_c_ss' }	9170.8	-67.92	6.2654	11567	12738	0.2219
{'fl_cor_c_ss' }	0.96524	-0.090025	0.18379	0.40647	0.41991	0.0084075
{'fl_cov_y_head_inc' }	15919	141.6	10.693	28014	30718	-4.6866
{'fl_cor_y_head_inc' }	1	0.11202	0.18722	0.58757	0.60437	-0.10598
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	1.2103	0.018967	0.0013818	1.8729	2.0589	-0.00055716
{'fl_cor_yshr_nttxss'}	0.86244	0.1702	0.27442	0.44562	0.45952	-0.14292
{'fracByP0_01' }	0.009751	0.0026036	0	0	0	1.3157e-08
{'fracByP10' }	0.05619	0.06505	0	0	0	0.0099451
{'fracByP25' }	0.14612	0.17355	0	0	0.0001174	0.037071
{'fracByP50' }	0.31645	0.42029	0	0.021796	0.023005	0.088689
{'fracByP75' }	0.5388	0.69292	1	0.15735	0.17544	0.16597
{'fracByP90' }	0.74893	0.85923	1	0.43967	0.44198	0.60597
{'fracByP99_99' }	0.99939	1	1	1	0.99603	0.99985

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0 and kids =2
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =2, ybin =0 to 20
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	13.877	30.374	0.12889	0.012144	0.0046046	0.93557
{'unweighted_sum' }	36580	1909	1	2195	2.8972e+05	687.4
{'sd' }	4.7688	7.2909	0.33508	0.10905	0.077134	0.088266
{'coefofvar' }	0.34365	0.24003	2.5997	8.9801	16.751	0.094345
{'gini' }	0.18392	0.12756	0.85481	0.96648	0.98067	0.029565
{'min' }	2.2124	19	0	0	0	0.038005
{'max' }	19.983	64	1	398.19	394.96	1
{'pYis0' }	0	0	0.87111	0.92646	0.94443	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.12889	0.073539	0.055569	1
{'pYisMINY' }	0.00067285	0.018272	0.87111	0.92646	0.94443	0
{'pYisMAXY' }	2.534e-17	0.00019014	0.12889	2.2767e-15	0	0.0029714
{'p0_01' }	2.2124	19	0	0	0	0.26754
{'p10' }	6.8273	22	0	0	0	0.90878
{'p25' }	8.7148	25	0	0	0	0.92655
{'p50' }	15.405	29	0	0	0	0.96004
{'p75' }	17.976	35	0	0	0	0.96622
{'p90' }	19.299	39	1	0	0	0.97562
{'p99_99' }	19.843	64	1	3.1855	1.7117	1
{'fl_cov_y_all' }	22.742	-2.4725	-0.16487	-0.014766	-0.0072858	0.16553
{'fl_cor_y_all' }	1	-0.07111	-0.10318	-0.028393	-0.019807	0.39325
{'fl_cov_age_ss' }	-2.4725	53.158	0.16218	-0.078937	-0.02898	0.070396
{'fl_cor_age_ss' }	-0.07111	1	0.066383	-0.099279	-0.051531	0.10939
{'fl_cov_educ_ss' }	-0.16487	0.16218	0.11228	0.00057428	-1.9161e-05	0.0024406
{'fl_cor_educ_ss' }	-0.10318	0.066383	1	0.015716	-0.00074135	0.082518
{'fl_cov_a_ss' }	-0.014766	-0.078937	0.00057428	0.011893	0.0075045	-0.0010565
{'fl_cor_a_ss' }	-0.028393	-0.099279	0.015716	1	0.89215	-0.10975
{'fl_cov_ap_ss' }	-0.0072858	-0.02898	-1.9161e-05	0.0075045	0.0059496	-0.0013272
{'fl_cor_ap_ss' }	-0.019807	-0.051531	-0.00074135	0.89215	1	-0.19495
{'fl_cov_MPC' }	0.16553	0.070396	0.0024406	-0.0010565	-0.0013272	0.0077909
{'fl_cor_MPC' }	0.39325	0.10939	0.082518	-0.10975	-0.19495	1
{'fl_cov_Mass' }	0.00051751	-0.00017901	-2.0888e-05	-1.6265e-06	-6.2931e-07	3.969e-06

{'fl_cor_Mass' }	0.68477	-0.15493	-0.39336	-0.094113	-0.051483	0.28374
{'fl_cov_c_ss' }	19.356	-2.2038	-0.13723	-0.0075907	-0.004444	0.14161
{'fl_cor_c_ss' }	0.99981	-0.074456	-0.10088	-0.017146	-0.014192	0.3952
{'fl_cov_y_head_inc' }	22.742	-2.4725	-0.16487	-0.014766	-0.0072858	0.16553
{'fl_cor_y_head_inc' }	1	-0.07111	-0.10318	-0.028393	-0.019807	0.39325
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	0.096485	-0.012676	-0.00055313	-2.9965e-05	-1.9647e-05	0.0007305
{'fl_cor_yshr_nttxss'}	0.98901	-0.084987	-0.080693	-0.013432	-0.012451	0.40456
{'fracByP0_01' }	0.00010727	0.011429	0	0	0	2.0699e-05
{'fracByP10' }	0.040599	0.083477	0	0	0	0.08328
{'fracByP25' }	0.12501	0.21408	0	0	0	0.23135
{'fracByP50' }	0.38882	0.40784	0	0	0	0.49738
{'fracByP75' }	0.68485	0.72084	0	0	0	0.75842
{'fracByP90' }	0.8912	0.85428	1	0	0	0.90596
{'fracByP99_99' }	0.99994	1	1	0.97386	0.91416	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =2, ybin =20 to 40
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	28.623	34.222	0.29431	0.29047	0.25007	0.92639
{'unweighted_sum' }	84180	1909	1	6132.2	9.054e+05	287.82
{'sd' }	6.7353	10.895	0.45573	2.8136	2.6845	0.17957
{'coefofvar' }	0.23531	0.31836	1.5485	9.6861	10.735	0.19384
{'gini' }	0.12666	0.17793	0.62854	0.98357	0.99154	0.063015
{'min' }	20.01	19	0	0	0	0.019243
{'max' }	39.996	64	1	874.82	868.47	1
{'pYis0' }	0	0	0.70569	0.88394	0.91357	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.29431	0.11606	0.08643	1
{'pYisMINY' }	2.2068e-07	0.023914	0.70569	0.88394	0.91357	0.00091972
{'pYisMAXY' }	7.7033e-22	0.00074382	0.29431	7.3571e-17	0	3.1342e-16
{'p0_01' }	20.082	19	0	0	0	0.019243
{'p10' }	20.521	21	0	0	0	0.75026
{'p25' }	21.341	24	0	0	0	0.97487
{'p50' }	29.357	34	0	0	0	0.98554
{'p75' }	35.402	43	1	0	0	0.9999
{'p90' }	37.85	49	1	0.049774	0	0.99999
{'p99_99' }	39.015	64	1	86.009	83.755	1
{'fl_cov_y_all' }	45.364	-52.006	-0.15025	-0.1796	-0.17799	0.029533
{'fl_cor_y_all' }	1	-0.70871	-0.048951	-0.0094776	-0.0098443	0.024419
{'fl_cov_age_ss' }	-52.006	118.7	0.77466	4.954	4.8377	-0.52026
{'fl_cor_age_ss' }	-0.70871	1	0.15602	0.16161	0.16541	-0.26592
{'fl_cov_educ_ss' }	-0.15025	0.77466	0.20769	0.07394	0.07444	-0.0069251
{'fl_cor_educ_ss' }	-0.048951	0.15602	1	0.057665	0.060846	-0.084621
{'fl_cov_a_ss' }	-0.1796	4.954	0.07394	7.9161	7.5312	-0.21793
{'fl_cor_a_ss' }	-0.0094776	0.16161	0.057665	1	0.99711	-0.43134
{'fl_cov_ap_ss' }	-0.17799	4.8377	0.07444	7.5312	7.2064	-0.20433
{'fl_cor_ap_ss' }	-0.0098443	0.16541	0.060846	0.99711	1	-0.42387
{'fl_cov_MPC' }	0.029533	-0.52026	-0.0069251	-0.21793	-0.20433	0.032246
{'fl_cor_MPC' }	0.024419	-0.26592	-0.084621	-0.43134	-0.42387	1
{'fl_cov_Mass' }	0.0007023	-0.0010946	-4.3998e-05	-6.3365e-05	-5.5912e-05	1.0831e-05
{'fl_cor_Mass' }	0.51615	-0.4973	-0.47789	-0.11148	-0.1031	0.29856
{'fl_cov_c_ss' }	36.388	-41.579	-0.11356	0.24685	0.18725	0.0087157
{'fl_cor_c_ss' }	0.99894	-0.70564	-0.046072	0.016223	0.012897	0.0089743
{'fl_cov_y_head_inc' }	45.364	-52.006	-0.15025	-0.1796	-0.17799	0.029533
{'fl_cor_y_head_inc' }	1	-0.70871	-0.048951	-0.0094776	-0.0098443	0.024419
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	0.085235	-0.096802	1.7547e-05	-0.00010168	-0.00012282	1.1841e-06
{'fl_cor_yshr_nttxss'}	0.99666	-0.69975	0.0030324	-0.0028463	-0.0036033	0.00051933
{'fracByP0_01' }	0.022079	0.013277	0	0	0	1.9105e-05

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'fracByP10' }	0.073514	0.060452	0	0	0	0.050263
{'fracByP25' }	0.1819	0.18136	0	0	0	0.20857
{'fracByP50' }	0.39729	0.36219	0	0	0	0.47073
{'fracByP75' }	0.73518	0.66795	1	0	0	0.76977
{'fracByP90' }	0.89894	0.86256	1	0.0041164	0	0.92436
{'fracByP99_99' }	1	1	1	0.96579	0.95357	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =2, ybin =40 to 60
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	48.193	36.458	0.10138	4.704	5.3457	0.71375
{'unweighted_sum' }	1.0615e+05	1909	1	10762	1.2328e+06	165.46
{'sd' }	4.4814	7.8775	0.30183	17.15	18.313	0.38967
{'coefofvar' }	0.092989	0.21607	2.9772	3.6459	3.4257	0.54595
{'gini' }	0.053072	0.11922	0.88846	0.94251	0.94273	0.25436
{'min' }	40.029	19	0	0	0	0.015526
{'max' }	59.999	64	1	1343.9	1334.4	1
{'pYis0' }	0	0	0.89862	0.76688	0.74896	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.10138	0.23312	0.25104	1
{'pYisMINY' }	0	0	0.89862	0.76688	0.74896	4.3007e-07
{'pYisMAXY' }	3.822e-15	0.00049547	0.10138	9.9479e-19	0	0.015053
{'p0_01' }	40.137	24	0	0	0	0.029685
{'p10' }	41.868	27	0	0	0	0.056359
{'p25' }	44.807	30	0	0	0	0.46772
{'p50' }	48.749	35	0	0	0	0.95949
{'p75' }	51.851	42	0	0	0.29997	0.99742
{'p90' }	53.545	48	1	10.751	14.395	0.99869
{'p99_99' }	59.781	64	1	244.54	249.99	1
{'fl_cov_y_all' }	20.083	26.576	0.25009	31.574	35.296	-1.1994
{'fl_cor_y_all' }	1	0.75281	0.18489	0.41081	0.43008	-0.68681
{'fl_cov_age_ss' }	26.576	62.055	-0.94066	75.809	85.909	-2.7036
{'fl_cor_age_ss' }	0.75281	1	-0.39562	0.56113	0.59551	-0.88076
{'fl_cov_educ_ss' }	0.25009	-0.94066	0.091101	-0.47646	-0.54153	0.028971
{'fl_cor_educ_ss' }	0.18489	-0.39562	1	-0.092043	-0.097971	0.24632
{'fl_cov_a_ss' }	31.574	75.809	-0.47646	294.13	313.27	-3.0643
{'fl_cor_a_ss' }	0.41081	0.56113	-0.092043	1	0.99743	-0.45852
{'fl_cov_ap_ss' }	35.296	85.909	-0.54153	313.27	335.37	-3.4902
{'fl_cor_ap_ss' }	0.43008	0.59551	-0.097971	0.99743	1	-0.48909
{'fl_cov_MPC' }	-1.1994	-2.7036	0.028971	-3.0643	-3.4902	0.15185
{'fl_cor_MPC' }	-0.68681	-0.88076	0.24632	-0.45852	-0.48909	1
{'fl_cov_Mass' }	-0.00073154	-0.0010928	-1.7007e-05	-0.0015279	-0.0017217	6.3738e-05
{'fl_cor_Mass' }	-0.65954	-0.56051	-0.22766	-0.35996	-0.37986	0.66088
{'fl_cov_c_ss' }	11.929	10.614	0.25945	5.4183	5.3461	-0.50845
{'fl_cor_c_ss' }	0.86947	0.44012	0.28077	0.10319	0.095354	-0.4262
{'fl_cov_y_head_inc' }	20.083	26.576	0.25009	31.574	35.296	-1.1994
{'fl_cor_y_head_inc' }	1	0.75281	0.18489	0.41081	0.43008	-0.68681
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	0.02066	0.027439	0.00023984	0.03064	0.03433	-0.0012223
{'fl_cor_yshr_nttxss'}	0.99819	0.75416	0.17205	0.38683	0.40589	-0.67914
{'fracByP0_01' }	0.03948	0.0077242	0	0	0	8.6252e-05
{'fracByP10' }	0.090423	0.073311	0	0	0	0.0069216
{'fracByP25' }	0.2296	0.22397	0	0	0	0.039009
{'fracByP50' }	0.49506	0.42721	0	0	0	0.34112
{'fracByP75' }	0.72215	0.70126	0	0	5.1723e-05	0.65902
{'fracByP90' }	0.88612	0.87462	1	0.12719	0.13428	0.88009
{'fracByP99_99' }	1	1	1	0.99991	0.99633	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =2, ybin =60 to 80
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean'}	70.391	40.567	0.99637	16.924	19.38	0.40876
{'unweighted_sum'}	1.3356e+05	1909	1	15665	1.6065e+06	113.23
{'sd'}	5.0854	7.0816	0.060124	35.508	38.082	0.42503
{'coefofvar'}	0.072245	0.17457	0.060343	2.0981	1.965	1.0398
{'gini'}	0.041014	0.096181	1.3211e-05	0.82126	0.81782	0.49396
{'min'}	60.026	19	0	0	0	0.0023198
{'max'}	79.98	64	1	1788.7	1776.2	0.99751
{'pYis0'}	0	0	0.0036281	0.47915	0.43831	0
{'pYls0'}	0	0	0	0	0	0
{'pYgr0'}	1	1	0.99637	0.52085	0.56169	1
{'pYisMINY'}	0	0	0.0036281	0.47915	0.43831	8.9813e-08
{'pYisMAXY'}	1.1921e-12	0.0010254	0.99637	2.3651e-16	0	0.060199
{'p0_01'}	60.051	31	0	0	0	0.012617
{'p10'}	62.057	32	1	0	0	0.049086
{'p25'}	67.045	35	1	0	0	0.052761
{'p50'}	71.456	39	1	0.049774	0.95301	0.067849
{'p75'}	74.603	45	1	17.072	22.056	0.87002
{'p90'}	75.714	51	1	49.774	60.699	0.99728
{'p99_99'}	79.79	64	1	398.19	398.19	0.99751
{'fl_cov_y_all'}	25.862	31.091	0.031765	86.544	98.791	-1.9299
{'fl_cor_y_all'}	1	0.86333	0.10389	0.47927	0.51011	-0.89285
{'fl_cov_age_ss'}	31.091	50.149	-0.065826	189.43	212.47	-2.3759
{'fl_cor_age_ss'}	0.86333	1	-0.1546	0.75333	0.78785	-0.78935
{'fl_cov_educ_ss'}	0.031765	-0.065826	0.0036149	-0.86078	-0.85995	0.0012466
{'fl_cor_educ_ss'}	0.10389	-0.1546	1	-0.40319	-0.37557	0.048782
{'fl_cov_a_ss'}	86.544	189.43	-0.86078	1260.9	1349.4	-5.9166
{'fl_cor_a_ss'}	0.47927	0.75333	-0.40319	1	0.99786	-0.39203
{'fl_cov_ap_ss'}	98.791	212.47	-0.85995	1349.4	1450.3	-6.7878
{'fl_cor_ap_ss'}	0.51011	0.78785	-0.37557	0.99786	1	-0.41935
{'fl_cov_MPC'}	-1.9299	-2.3759	0.0012466	-5.9166	-6.7878	0.18065
{'fl_cor_MPC'}	-0.89285	-0.78935	0.048782	-0.39203	-0.41935	1
{'fl_cov_Mass'}	-0.00032837	-0.00043511	3.0679e-07	-0.0013077	-0.0014805	2.7863e-05
{'fl_cor_Mass'}	-0.77443	-0.7369	0.061198	-0.44169	-0.46625	0.78624
{'fl_cov_c_ss'}	7.5968	0.80715	0.023567	-22.192	-25.21	-0.60961
{'fl_cor_c_ss'}	0.50201	0.038302	0.13172	-0.21003	-0.22246	-0.48199
{'fl_cov_y_head_inc'}	25.862	31.091	0.031765	86.544	98.791	-1.9299
{'fl_cor_y_head_inc'}	1	0.86333	0.10389	0.47927	0.51011	-0.89285
{'fl_cov_y_spouse'}	0	0	0	0	0	0
{'fl_cor_y_spouse'}	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	0.016604	0.019644	2.1086e-05	0.052644	0.060267	-0.001235
{'fl_cor_yshr_nttxss'}	0.99889	0.84869	0.1073	0.45359	0.48417	-0.889
{'fracByP0_01'}	0.051356	0.046003	0	0	0	0.0001308
{'fracByP10'}	0.10625	0.093088	1	0	0	0.010411
{'fracByP25'}	0.26707	0.2385	1	0	0	0.029706
{'fracByP50'}	0.47005	0.43399	1	7.4249e-05	0.0016944	0.064684
{'fracByP75'}	0.73148	0.69955	1	0.11563	0.11883	0.43536
{'fracByP90'}	0.89126	0.88444	1	0.38421	0.4122	0.85309
{'fracByP99_99'}	1	1	1	0.99821	0.99783	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =2, ybin =80 to 100
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean'}	89.293	24.056	0.073318	3.8484	3.8582	0.95373
{'unweighted_sum'}	1.3006e+05	1909	1	22077	1.9858e+06	138.68
{'sd'}	6.3663	4.5973	0.26066	31.527	32.312	0.16183
{'coefofvar'}	0.071297	0.19111	3.5552	8.1922	8.3749	0.16968
{'gini'}	0.035445	0.06697	0.92134	0.98528	0.99126	0.037786
{'min'}	80.002	19	0	0	0	0.0341
{'max'}	99.95	64	1	2322.2	2306.2	1

{'pYis0' }	0	0	0.92668	0.78663	0.86398	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.073318	0.21337	0.13602	1
{'pYisMINY' }	0.00037942	0.050557	0.92668	0.78663	0.86398	1.9121e-06
{'pYisMAXY' }	0	0.00065043	0.073318	5.3866e-20	0	0.010382
{'p0_01' }	80.002	19	0	0	0	0.043731
{'p10' }	80.642	20	0	0	0	0.98943
{'p25' }	83.842	22	0	0	0	0.99781
{'p50' }	90.036	24	0	0	0	0.99906
{'p75' }	95.86	26	0	0	0	1
{'p90' }	98.617	27	0	0.39819	0.39819	1
{'p99_99' }	98.633	64	1	529.99	529.99	1
{'fl_cov_y_all' }	40.53	10.82	-0.071675	-25.943	-25.957	0.37082
{'fl_cor_y_all' }	1	0.3697	-0.043193	-0.12925	-0.12618	0.35992
{'fl_cov_age_ss' }	10.82	21.135	0.36341	121.1	124.61	-0.28619
{'fl_cor_age_ss' }	0.3697	1	0.30326	0.83553	0.83887	-0.38466
{'fl_cov_educ_ss' }	-0.071675	0.36341	0.067942	3.4249	3.5083	-0.010423
{'fl_cor_educ_ss' }	-0.043193	0.30326	1	0.41677	0.41654	-0.24708
{'fl_cov_a_ss' }	-25.943	121.1	3.4249	993.94	1018.6	-3.2815
{'fl_cor_a_ss' }	-0.12925	0.83553	0.41677	1	0.99986	-0.64316
{'fl_cov_ap_ss' }	-25.957	124.61	3.5083	1018.6	1044.1	-3.3819
{'fl_cor_ap_ss' }	-0.12618	0.83887	0.41654	0.99986	1	-0.64673
{'fl_cov_MPC' }	0.37082	-0.28619	-0.010423	-3.2815	-3.3819	0.02619
{'fl_cor_MPC' }	0.35992	-0.38466	-0.24708	-0.64316	-0.64673	1
{'fl_cov_Mass' }	0.00055551	0.00010098	-1.4421e-05	-0.0009036	-0.0009127	6.9237e-06
{'fl_cor_Mass' }	0.59482	0.14974	-0.37716	-0.19538	-0.19255	0.29164
{'fl_cov_c_ss' }	30.848	4.7175	-0.13788	-44.358	-45.277	0.3827
{'fl_cor_c_ss' }	0.98121	0.20779	-0.10712	-0.28492	-0.28375	0.47887
{'fl_cov_y_head_inc' }	40.53	10.82	-0.071675	-25.943	-25.957	0.37082
{'fl_cor_y_head_inc' }	1	0.3697	-0.043193	-0.12925	-0.12618	0.35992
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	0.018155	0.0048318	-3.1635e-05	-0.011759	-0.011763	0.0001707
{'fl_cor_yshr_nttxss'}	0.9992	0.36826	-0.042525	-0.13069	-0.12755	0.36958
{'fracByP0_01' }	0.00033995	0.039932	0	0	0	4.1499e-06
{'fracByP10' }	0.12373	0.097984	0	0	0	0.091411
{'fracByP25' }	0.27228	0.29165	0	0	0	0.23056
{'fracByP50' }	0.55408	0.54548	0	0	0	0.49922
{'fracByP75' }	0.85425	0.81753	0	0	0	0.843
{'fracByP90' }	0.99953	0.96563	0	0.0099654	0.0053209	0.98908
{'fracByP99_99' }	0.99999	1	1	0.99203	0.9855	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =2, ybin =100 to 1414.0634
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	**y_all**	**age_ss**	**educ_ss**	**a_ss**	**ap_ss**	**MPC**
{'mean' }	184.84	36.953	0.28622	72.142	81.822	0.44715
{'unweighted_sum' }	8.9657e+06	1909	1	1.0976e+05	6.4386e+07	1368
{'sd' }	120.91	8.3023	0.45199	223.35	240.54	0.44224
{'coefofvar' }	0.65414	0.22467	1.5792	3.096	2.9398	0.98902
{'gini' }	0.27856	0.1239	0.64029	0.8682	0.86351	0.49864
{'min' }	100.05	19	0	0	0	4.7129e-05
{'max' }	1413.7	64	1	7837.6	8223.8	1
{'pYis0' }	0	0	0.71378	0.4918	0.46677	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.28622	0.5082	0.53323	1
{'pYisMINY' }	0	0.0029257	0.71378	0.4918	0.46677	0
{'pYisMAXY' }	3.2904e-09	0.00070463	0.28622	4.9997e-05	4.942e-08	0.0092364
{'p0_01' }	101.26	19	0	0	0	0.00034837
{'p10' }	108.52	28	0	0	0	0.047472
{'p25' }	118.2	31	0	0	0	0.053636
{'p50' }	133.03	36	0	0.39819	2.0779	0.078178
{'p75' }	198.22	43	1	49.774	65.182	0.92958

{'p90' }	316.66	48	1	203.87	228.72	0.99791
{'p99_99' }	1326.6	64	1	6221.7	6551.9	1
{'fl_cov_y_all' }	14619	99.036	10.45	13603	15160	-9.6024
{'fl_cor_y_all' }	1	0.098659	0.19121	0.50373	0.52127	-0.17958
{'fl_cov_age_ss' }	99.036	68.928	-0.052963	934.05	1034.5	-2.9365
{'fl_cor_age_ss' }	0.098659	1	-0.014114	0.50371	0.51801	-0.79977
{'fl_cov_educ_ss' }	10.45	-0.052963	0.2043	11.522	12.855	0.00098353
{'fl_cor_educ_ss' }	0.19121	-0.014114	1	0.11413	0.11824	0.0049203
{'fl_cov_a_ss' }	13603	934.05	11.522	49887	53674	-28.458
{'fl_cor_a_ss' }	0.50373	0.50371	0.11413	1	0.99905	-0.28811
{'fl_cov_ap_ss' }	15160	1034.5	12.855	53674	57859	-32.329
{'fl_cor_ap_ss' }	0.52127	0.51801	0.11824	0.99905	1	-0.30391
{'fl_cov_MPC' }	-9.6024	-2.9365	0.00098353	-28.458	-32.329	0.19558
{'fl_cor_MPC' }	-0.17958	-0.79977	0.0049203	-0.28811	-0.30391	1
{'fl_cov_Mass' }	-0.0062605	-0.00048257	-1.6815e-05	-0.0073066	-0.0082307	3.2333e-05
{'fl_cor_Mass' }	-0.38861	-0.43624	-0.2792	-0.24552	-0.25681	0.54872
{'fl_cov_c_ss' }	9351.5	-26.283	6.4908	6354.2	7117.9	-3.3141
{'fl_cor_c_ss' }	0.98108	-0.040157	0.18216	0.36087	0.37536	-0.095056
{'fl_cov_y_head_inc' }	14619	99.036	10.45	13603	15160	-9.6024
{'fl_cor_y_head_inc' }	1	0.098659	0.19121	0.50373	0.52127	-0.17958
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	1.188	0.014104	0.0014555	0.92429	1.0367	-0.0012331
{'fl_cor_yshr_nttxss'}	0.86885	0.15022	0.28474	0.36594	0.38111	-0.24655
{'fracByP0_01' }	0.015973	0.0015043	0	0	0	2.7418e-08
{'fracByP10' }	0.069297	0.10264	0	0	0	0.0074938
{'fracByP25' }	0.1608	0.22129	0	0	0	0.024295
{'fracByP50' }	0.31707	0.43147	0	0.00011883	0.00047981	0.059279
{'fracByP75' }	0.54034	0.70893	1	0.066599	0.072832	0.45531
{'fracByP90' }	0.75019	0.85703	1	0.31517	0.30811	0.77913
{'fracByP99_99' }	0.99926	1	1	0.99094	0.99067	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0 and kids =3
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =3, ybin =0 to 20
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	14.175	30.704	0.099506	0.0029013	0.0014807	0.9577
{'unweighted_sum' }	36580	1909	1	2195	2.8869e+05	699.77
{'sd' }	4.8138	6.4199	0.29934	0.037519	0.026487	0.069119
{'coefofvar' }	0.3396	0.20909	3.0083	12.931	17.889	0.072171
{'gini' }	0.17827	0.11104	0.8907	0.97237	0.98164	0.02388
{'min' }	2.2124	19	0	0	0	0.039597
{'max' }	19.983	64	1	398.19	394.27	1
{'pYis0' }	0	0	0.90049	0.96001	0.97032	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.099506	0.039987	0.029683	1
{'pYisMINY' }	0.0007614	0.012693	0.90049	0.96001	0.97032	0
{'pYisMAXY' }	4.5419e-18	4.3735e-05	0.099506	2.4397e-16	0	0.00044206
{'p0_01' }	2.2124	19	0	0	0	0.3421
{'p10' }	6.9982	23	0	0	0	0.92715
{'p25' }	8.7389	26	0	0	0	0.93195
{'p50' }	15.879	30	0	0	0	0.9789
{'p75' }	18.337	35	0	0	0	0.98774
{'p90' }	19.299	38	0	0	0	0.99648
{'p99_99' }	19.841	63	1	0.39819	0.23953	1
{'fl_cov_y_all' }	23.173	-1.1381	-0.20073	-0.0052208	-0.0029456	0.16319
{'fl_cor_y_all' }	1	-0.036828	-0.1393	-0.028907	-0.023102	0.49047
{'fl_cov_age_ss' }	-1.1381	41.216	0.23403	-0.025987	-0.0147	-0.015714
{'fl_cor_age_ss' }	-0.036828	1	0.12178	-0.10789	-0.086446	-0.035412
{'fl_cov_educ_ss' }	-0.20073	0.23403	0.089604	-8.8777e-05	-8.829e-05	-0.00087772

{'fl_cor_educ_ss' }	-0.1393	0.12178	1	-0.0079048	-0.011136	-0.042423
{'fl_cov_a_ss' }	-0.0052208	-0.025987	-8.8777e-05	0.0014076	0.00081972	4.9939e-07
{'fl_cor_a_ss' }	-0.028907	-0.10789	-0.0079048	1	0.82487	0.00019257
{'fl_cov_ap_ss' }	-0.0029456	-0.0147	-8.829e-05	0.00081972	0.00070157	-0.00031588
{'fl_cor_ap_ss' }	-0.023102	-0.086446	-0.011136	0.82487	1	-0.17254
{'fl_cov_MPC' }	0.16319	-0.015714	-0.00087772	4.9939e-07	-0.00031588	0.0047774
{'fl_cor_MPC' }	0.49047	-0.035412	-0.042423	0.00019257	-0.17254	1
{'fl_cov_Mass' }	0.0002592	-5.1417e-05	-8.7996e-06	-2.0528e-07	-9.7176e-08	2.0112e-06
{'fl_cor_Mass' }	0.70954	-0.10554	-0.38738	-0.072102	-0.048346	0.38344
{'fl_cov_c_ss' }	19.717	-1.0328	-0.1682	-0.0037218	-0.0023239	0.13996
{'fl_cor_c_ss' }	0.99991	-0.039272	-0.13718	-0.024217	-0.021419	0.49434
{'fl_cov_y_head_inc' }	23.173	-1.1381	-0.20073	-0.0052208	-0.0029456	0.16319
{'fl_cor_y_head_inc' }	1	-0.036828	-0.1393	-0.028907	-0.023102	0.49047
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	0.097657	-0.0072962	-0.0006955	-1.4719e-05	-8.8767e-06	0.00073581
{'fl_cor_yshr_nttxss'}	0.98972	-0.055445	-0.11335	-0.019139	-0.01635	0.51936
{'fracByP0_01' }	0.00011884	0.0078548	0	0	0	8.1084e-05
{'fracByP10' }	0.042262	0.085526	0	0	0	0.089562
{'fracByP25' }	0.12356	0.21676	0	0	0	0.23307
{'fracByP50' }	0.38392	0.43006	0	0	0	0.51835
{'fracByP75' }	0.71797	0.7369	0	0	0	0.77348
{'fracByP90' }	0.88461	0.87126	0	0	0	0.89751
{'fracByP99_99' }	0.99999	0.99991	1	0.97341	0.96264	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =3, ybin =20 to 40
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	28.524	33.925	0.30512	0.046753	0.036456	0.97939
{'unweighted_sum' }	84180	1909	1	6132.2	9.0207e+05	317.42
{'sd' }	6.7886	9.8791	0.46046	1.0765	1.0084	0.10995
{'coefofvar' }	0.238	0.2912	1.5091	23.025	27.66	0.11227
{'gini' }	0.1276	0.16216	0.61278	0.99181	0.99665	0.018878
{'min' }	20.01	19	0	0	0	0.026702
{'max' }	39.996	64	1	874.82	867.02	1
{'pYis0' }	0	0	0.69488	0.93399	0.95053	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.30512	0.066009	0.049467	1
{'pYisMINY' }	1.352e-08	0.018959	0.69488	0.93399	0.95053	8.0897e-08
{'pYisMAXY' }	2.6888e-22	0.00019527	0.30512	9.1948e-18	0	5.1403e-15
{'p0_01' }	20.082	19	0	0	0	0.033561
{'p10' }	20.506	22	0	0	0	0.99327
{'p25' }	21.242	25	0	0	0	0.997
{'p50' }	28.71	34	0	0	0	0.9998
{'p75' }	35.402	42	1	0	0	0.99998
{'p90' }	37.85	47	1	0	0	1
{'p99_99' }	39.015	64	1	49.774	46.757	1
{'fl_cov_y_all' }	46.086	-47.495	-0.33171	0.028447	0.0055501	-0.039912
{'fl_cor_y_all' }	1	-0.70818	-0.10612	0.0038926	0.00081076	-0.053471
{'fl_cov_age_ss' }	-47.495	97.597	0.89026	0.64528	0.68023	0.058632
{'fl_cor_age_ss' }	-0.70818	1	0.19571	0.060676	0.068283	0.053978
{'fl_cov_educ_ss' }	-0.33171	0.89026	0.21202	0.011181	0.012284	0.0017949
{'fl_cor_educ_ss' }	-0.10612	0.19571	1	0.022556	0.026456	0.035452
{'fl_cov_a_ss' }	0.028447	0.64528	0.011181	1.1588	1.0804	-0.031969
{'fl_cor_a_ss' }	0.0038926	0.060676	0.022556	1	0.99532	-0.2701
{'fl_cov_ap_ss' }	0.0055501	0.68023	0.012284	1.0804	1.0168	-0.029942
{'fl_cor_ap_ss' }	0.00081076	0.068283	0.026456	0.99532	1	-0.27005
{'fl_cov_MPC' }	-0.039912	0.058632	0.0017949	-0.031969	-0.029942	0.01209
{'fl_cor_MPC' }	-0.053471	0.053978	0.035452	-0.2701	-0.27005	1
{'fl_cov_Mass' }	0.00028889	-0.00038948	-1.8512e-05	-4.3173e-06	-3.4856e-06	1.1671e-06
{'fl_cor_Mass' }	0.51425	-0.47643	-0.48584	-0.048466	-0.041772	0.12828
{'fl_cov_c_ss' }	36.985	-38.104	-0.25843	0.10233	0.068944	-0.03449

{'fl_cor_c_ss' }	0.99973	-0.70777	-0.10299	0.017443	0.012546	-0.05756
{'fl_cov_y_head_inc' }	46.086	-47.495	-0.33171	0.028447	0.0055501	-0.039912
{'fl_cor_y_head_inc' }	1	-0.70818	-0.10612	0.0038926	0.00081076	-0.053471
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	0.086369	-0.088056	-0.00027178	9.7144e-05	4.585e-05	-9.2451e-05
{'fl_cor_yshr_nttxss'}	0.99645	-0.69811	-0.046229	0.0070678	0.0035612	-0.065855
{'fracByP0_01' }	0.027969	0.010618	0	0	0	4.199e-06
{'fracByP10' }	0.078843	0.07646	0	0	0	0.085395
{'fracByP25' }	0.1812	0.20761	0	0	0	0.25726
{'fracByP50' }	0.39511	0.37129	0	0	0	0.49765
{'fracByP75' }	0.72177	0.69147	1	0	0	0.74715
{'fracByP90' }	0.89175	0.87127	1	0	0	0.92351
{'fracByP99_99' }	1	1	1	0.89545	0.81491	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =3, ybin =40 to 60
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	47.584	35.416	0.084974	1.2503	1.4765	0.85973
{'unweighted_sum' }	1.0615e+05	1909	1	10762	1.2286e+06	181.71
{'sd' }	4.2444	6.8369	0.27884	7.8125	8.4819	0.31371
{'coefofvar' }	0.089199	0.19305	3.2815	6.2485	5.7447	0.3649
{'gini' }	0.050326	0.10564	0.90786	0.98049	0.97995	0.12796
{'min' }	40.029	19	0	0	0	0.011966
{'max' }	59.999	64	1	1343.9	1332.3	1
{'pYis0' }	0	0	0.91503	0.91069	0.89924	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.084974	0.089309	0.10076	1
{'pYisMINY' }	0	0	0.91503	0.91069	0.89924	7.9615e-10
{'pYisMAXY' }	3.8606e-16	0.00011076	0.084974	1.2187e-19	0	0.012807
{'p0_01' }	40.137	24	0	0	0	0.016938
{'p10' }	41.215	28	0	0	0	0.068262
{'p25' }	44.166	30	0	0	0	0.99644
{'p50' }	47.665	34	0	0	0	0.9998
{'p75' }	50.835	40	0	0	0	0.99994
{'p90' }	52.882	45	0	0	0.35377	1
{'p99_99' }	59.026	64	1	167.99	176.89	1
{'fl_cov_y_all' }	18.015	21.042	0.34401	8.461	9.8206	-0.71199
{'fl_cor_y_all' }	1	0.72513	0.29067	0.25516	0.27279	-0.53472
{'fl_cov_age_ss' }	21.042	46.743	-0.6691	22.253	26.155	-1.6684
{'fl_cor_age_ss' }	0.72513	1	-0.35097	0.41663	0.45103	-0.7779
{'fl_cov_educ_ss' }	0.34401	-0.6691	0.077753	-0.10619	-0.12541	0.011918
{'fl_cor_educ_ss' }	0.29067	-0.35097	1	-0.048746	-0.053026	0.13625
{'fl_cov_a_ss' }	8.461	22.253	-0.10619	61.035	66.008	-0.99253
{'fl_cor_a_ss' }	0.25516	0.41663	-0.048746	1	0.99612	-0.40497
{'fl_cov_ap_ss' }	9.8206	26.155	-0.12541	66.008	71.943	-1.1739
{'fl_cor_ap_ss' }	0.27279	0.45103	-0.053026	0.99612	1	-0.44118
{'fl_cov_MPC' }	-0.71199	-1.6684	0.011918	-0.99253	-1.1739	0.098416
{'fl_cor_MPC' }	-0.53472	-0.7779	0.13625	-0.40497	-0.44118	1
{'fl_cov_Mass' }	-0.00028685	-0.00036509	-1.071e-05	-0.0002327	-0.00027301	2.007e-05
{'fl_cor_Mass' }	-0.59029	-0.46641	-0.33547	-0.26016	-0.28113	0.55878
{'fl_cov_c_ss' }	12.685	12.511	0.2867	1.6094	1.7053	-0.37319
{'fl_cor_c_ss' }	0.95493	0.58469	0.32853	0.065824	0.064242	-0.38011
{'fl_cov_y_head_inc' }	18.015	21.042	0.34401	8.461	9.8206	-0.71199
{'fl_cor_y_head_inc' }	1	0.72513	0.29067	0.25516	0.27279	-0.53472
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	0.018708	0.022126	0.00033338	0.0083132	0.0096709	-0.00072291
{'fl_cor_yshr_nttxss'}	0.9982	0.73289	0.27076	0.24098	0.25821	-0.52186
{'fracByP0_01' }	0.043232	0.0043563	0	0	0	0.00034016
{'fracByP10' }	0.089428	0.12093	0	0	0	0.0061391
{'fracByP25' }	0.24489	0.2388	0	0	0	0.14301

{'fracByP50' }	0.46781	0.4358	0	0	0	0.46222
{'fracByP75' }	0.73313	0.70999	0	0	0	0.71532
{'fracByP90' }	0.88722	0.87056	0	0	0.00016249	0.88454
{'fracByP99_99' }	0.99989	1	1	0.98539	0.98737	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =3, ybin =60 to 80
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	69.61	39.349	0.99964	6.906	8.1104	0.59884
{'unweighted_sum' }	1.3356e+05	1909	1	15665	1.6013e+06	124.95
{'sd' }	4.7884	6.2978	0.019043	20.744	22.674	0.43977
{'coefofvar' }	0.068789	0.16005	0.01905	3.0037	2.7957	0.73437
{'gini' }	0.0386	0.087407	1.3165e-07	0.91372	0.91106	0.34969
{'min' }	60.026	19	0	0	0	5.6304e-05
{'max' }	79.98	64	1	1788.7	1773.4	0.99999
{'pYis0' }	0	0	0.00036278	0.68981	0.65903	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.99964	0.31019	0.34097	1
{'pYisMINY' }	0	0	0.00036278	0.68981	0.65903	0
{'pYisMAXY' }	4.5583e-13	0.00030237	0.99964	2.0661e-17	0	0.065947
{'p0_01' }	60.051	31	0	0	0	0.0086112
{'p10' }	62.057	32	1	0	0	0.042758
{'p25' }	65.554	34	1	0	0	0.058407
{'p50' }	70.54	38	1	0	0	0.84043
{'p75' }	73.711	43	1	1.3439	3.1855	0.9986
{'p90' }	74.783	48	1	17.072	24.134	0.99996
{'p99_99' }	79.79	64	1	290.28	290.28	0.99999
{'fl_cov_y_all' }	22.928	27.032	0.0028537	41.297	47.822	-1.7464
{'fl_cor_y_all' }	1	0.89639	0.031295	0.41576	0.44046	-0.82933
{'fl_cov_age_ss' }	27.032	39.662	-0.0068669	87.135	100.34	-2.3831
{'fl_cor_age_ss' }	0.89639	1	-0.057258	0.66699	0.7027	-0.86045
{'fl_cov_educ_ss' }	0.0028537	-0.0068669	0.00036264	-0.08965	-0.089405	0.0001951
{'fl_cor_educ_ss' }	0.031295	-0.057258	1	-0.22695	-0.20706	0.023296
{'fl_cov_a_ss' }	41.297	87.135	-0.08965	430.3	469.18	-3.709
{'fl_cor_a_ss' }	0.41576	0.66699	-0.22695	1	0.99752	-0.40658
{'fl_cov_ap_ss' }	47.822	100.34	-0.089405	469.18	514.13	-4.3619
{'fl_cor_ap_ss' }	0.44046	0.7027	-0.20706	0.99752	1	-0.43744
{'fl_cov_MPC' }	-1.7464	-2.3831	0.0001951	-3.709	-4.3619	0.1934
{'fl_cor_MPC' }	-0.82933	-0.86045	0.023296	-0.40658	-0.43744	1
{'fl_cov_Mass' }	-0.00012729	-0.00018251	1.9211e-08	-0.00034633	-0.00040209	1.3006e-05
{'fl_cor_Mass' }	-0.68257	-0.74411	0.025903	-0.42869	-0.45533	0.7594
{'fl_cov_c_ss' }	11.075	7.5321	0.0019466	-7.2267	-8.2871	-0.68677
{'fl_cor_c_ss' }	0.74778	0.38668	0.033049	-0.11263	-0.11816	-0.5049
{'fl_cov_y_head_inc' }	22.928	27.032	0.0028537	41.297	47.822	-1.7464
{'fl_cor_y_head_inc' }	1	0.89639	0.031295	0.41576	0.44046	-0.82933
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	0.014893	0.017294	1.9099e-06	0.025448	0.029526	-0.0011105
{'fl_cor_yshr_nttxss'}	0.99904	0.88208	0.032215	0.39405	0.41827	-0.81111
{'fracByP0_01' }	0.056891	0.051954	0	0	0	0.00048593
{'fracByP10' }	0.11685	0.10644	1	0	0	0.0053814
{'fracByP25' }	0.24125	0.22032	1	0	0	0.018853
{'fracByP50' }	0.48587	0.45078	1	0	0	0.23848
{'fracByP75' }	0.73171	0.70173	1	0.0085044	0.018437	0.66583
{'fracByP90' }	0.892	0.87281	1	0.19017	0.22438	0.88988
{'fracByP99_99' }	1	1	1	0.99784	0.99609	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =3, ybin =80 to 100
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC

{'mean' }	90.35	24.079	0.025227	0.70702	0.69562	0.97936
{'unweighted_sum' }	1.3006e+05	1909	1	22077	1.9804e+06	145.64
{'sd' }	6.2633	2.857	0.15681	13.083	13.319	0.099111
{'coefofvar' }	0.069323	0.11865	6.2161	18.505	19.147	0.1012
{'gini' }	0.033058	0.048611	0.97414	0.98955	0.99501	0.016376
{'min' }	80.002	19	0	0	0	0.034147
{'max' }	99.95	64	1	2322.2	2302.4	1
{'pYis0' }	0	0	0.97477	0.86688	0.90064	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.025227	0.13312	0.099356	1
{'pYisMINY' }	8.5296e-05	0.041108	0.97477	0.86688	0.90064	1.196e-06
{'pYisMAXY' }	0	0.00010556	0.025227	9.5889e-21	0	0.0018076
{'p0_01' }	80.036	19	0	0	0	0.046012
{'p10' }	80.642	21	0	0	0	0.99995
{'p25' }	83.842	22	0	0	0	0.99996
{'p50' }	90.036	24	0	0	0	0.99999
{'p75' }	95.86	26	0	0	0	1
{'p90' }	98.617	27	0	0.39819	0	1
{'p99_99' }	98.617	64	1	398.19	401.09	1
{'fl_cov_y_all' }	39.229	13.444	0.0018046	-5.738	-5.6221	0.1976
{'fl_cor_y_all' }	1	0.75132	0.0018374	-0.070023	-0.067395	0.31832
{'fl_cov_age_ss' }	13.444	8.1624	0.046249	21.03	21.499	0.012966
{'fl_cor_age_ss' }	0.75132	1	0.10323	0.56263	0.56498	0.04579
{'fl_cov_educ_ss' }	0.0018046	0.046249	0.024591	0.63207	0.64321	-0.002258
{'fl_cor_educ_ss' }	0.0018374	0.10323	1	0.30808	0.30796	-0.14528
{'fl_cov_a_ss' }	-5.738	21.03	0.63207	171.17	174.23	-0.5903
{'fl_cor_a_ss' }	-0.070023	0.56263	0.30808	1	0.99983	-0.45523
{'fl_cov_ap_ss' }	-5.6221	21.499	0.64321	174.23	177.39	-0.60821
{'fl_cor_ap_ss' }	-0.067395	0.56498	0.30796	0.99983	1	-0.46075
{'fl_cov_MPC' }	0.1976	0.012966	-0.002258	-0.5903	-0.60821	0.0098229
{'fl_cor_MPC' }	0.31832	0.04579	-0.14528	-0.45523	-0.46075	1
{'fl_cov_Mass' }	0.00023425	8.2157e-05	-2.5926e-06	-7.6e-05	-7.5603e-06	1.6215e-06
{'fl_cor_Mass' }	0.62124	0.47767	-0.27462	-0.096491	-0.094289	0.27176
{'fl_cov_c_ss' }	29.725	9.7589	-0.0097575	-7.4196	-7.446	0.16832
{'fl_cor_c_ss' }	0.99748	0.71792	-0.013078	-0.11919	-0.1175	0.35694
{'fl_cov_y_head_inc' }	39.229	13.444	0.0018046	-5.738	-5.6221	0.1976
{'fl_cor_y_head_inc' }	1	0.75132	0.0018374	-0.070023	-0.067395	0.31832
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	0.017473	0.0059928	1.1675e-06	-0.0026071	-0.0025535	9.087e-05
{'fl_cor_yshr_nttxss'}	0.99916	0.75125	0.0026664	-0.071368	-0.068664	0.32837
{'fracByP0_01' }	0.00011868	0.032438	0	0	0	4.2267e-06
{'fracByP10' }	0.14378	0.14347	0	0	0	0.22283
{'fracByP25' }	0.2389	0.23358	0	0	0	0.31706
{'fracByP50' }	0.4844	0.48292	0	0	0	0.49526
{'fracByP75' }	0.81651	0.80532	0	0	0	0.83531
{'fracByP90' }	0.99998	0.99382	0	0.062366	0	0.99708
{'fracByP99_99' }	0.99998	1	1	0.9609	0.93455	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =3, ybin =100 to 1414.0634
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	181.17	35.984	0.26923	35.027	40.853	0.57715
{'unweighted_sum' }	8.9657e+06	1909	1	1.0976e+05	6.4098e+07	1477.4
{'sd' }	118.06	7.1929	0.44356	140.03	152.67	0.45526
{'coefofvar' }	0.65168	0.19989	1.6475	3.9978	3.737	0.7888
{'gini' }	0.27704	0.10919	0.66482	0.92306	0.91788	0.39415
{'min' }	100.05	19	0	0	0	2.6484e-05
{'max' }	1413.7	64	1	7837.6	8181.7	1
{'pYis0' }	0	0	0.73077	0.64316	0.60846	0
{'pYls0' }	0	0	0	0	0	0

{'pYgr0' }	1	1	0.26923	0.35684	0.39154	1
{'pYisMINY' }	0	0.0020574	0.73077	0.64316	0.60846	0
{'pYisMAXY' }	1.7128e-10	0.00016401	0.26923	9.578e-06	4.4677e-07	0.008008
{'p0_01' }	101.26	19	0	0	0	0.0026412
{'p10' }	106.22	28	0	0	0	0.047885
{'p25' }	116.5	31	0	0	0	0.057802
{'p50' }	129.25	35	0	0	0	0.83559
{'p75' }	194.98	41	1	10.751	17.052	0.99882
{'p90' }	307.9	46	1	86.009	104.87	0.99996
{'p99_99' }	1243	64	1	3957.4	4203.4	1
{'fl_cov_y_all' }	13939	76.76	10.617	7309.4	8313.6	-10.967
{'fl_cor_y_all' }	1	0.09039	0.20273	0.44213	0.46125	-0.20404
{'fl_cov_age_ss' }	76.76	51.737	0.10011	458.21	520	-2.671
{'fl_cor_age_ss' }	0.09039	1	0.031377	0.45493	0.47354	-0.81568
{'fl_cov_educ_ss' }	10.617	0.10011	0.19675	7.8363	8.9148	-0.021733
{'fl_cor_educ_ss' }	0.20273	0.031377	1	0.12617	0.13165	-0.10763
{'fl_cov_a_ss' }	7309.4	458.21	7.8363	19608	21351	-18.31
{'fl_cor_a_ss' }	0.44213	0.45493	0.12617	1	0.99875	-0.28721
{'fl_cov_ap_ss' }	8313.6	520	8.9148	21351	23307	-21.37
{'fl_cor_ap_ss' }	0.46125	0.47354	0.13165	0.99875	1	-0.30747
{'fl_cov_MPC' }	-10.967	-2.671	-0.021733	-18.31	-21.37	0.20726
{'fl_cor_MPC' }	-0.20404	-0.81568	-0.10763	-0.28721	-0.30747	1
{'fl_cov_Mass' }	-0.0037818	-0.00020772	-1.1934e-05	-0.002325	-0.0026951	1.8174e-05
{'fl_cor_Mass' }	-0.4382	-0.39506	-0.36806	-0.22714	-0.2415	0.54611
{'fl_cov_c_ss' }	9398.5	-4.3012	6.8727	3706.8	4242.5	-5.145
{'fl_cor_c_ss' }	0.98899	-0.0074289	0.19249	0.32887	0.34524	-0.1404
{'fl_cov_y_head_inc' }	13939	76.76	10.617	7309.4	8313.6	-10.967
{'fl_cor_y_head_inc' }	1	0.09039	0.20273	0.44213	0.46125	-0.20404
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	1.1725	0.011441	0.0015386	0.50122	0.57621	-0.001408
{'fl_cor_yshr_nttxss'}	0.87329	0.13987	0.30503	0.31476	0.3319	-0.27197
{'fracByP0_01' }	0.01864	0.0010863	0	0	0	2.5334e-07
{'fracByP10' }	0.060705	0.096882	0	0	0	0.0047749
{'fracByP25' }	0.1666	0.23736	0	0	0	0.018986
{'fracByP50' }	0.31846	0.44096	0	0	0	0.15077
{'fracByP75' }	0.53611	0.71793	1	0.015832	0.019858	0.57387
{'fracByP90' }	0.7528	0.87597	1	0.18894	0.19831	0.82723
{'fracByP99_99' }	0.99929	1	1	0.98543	0.98637	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0 and kids =4
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =4, ybin =0 to 20
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	14.446	31.296	0.075143	0.00054064	5.3079e-05	0.95415
{'unweighted_sum' }	36580	1909	1	2195	2.8843e+05	685.85
{'sd' }	4.861	5.8121	0.26362	0.013073	0.0095267	0.052037
{'coefofvar' }	0.33649	0.18572	3.5083	24.181	179.48	0.054537
{'gini' }	0.17292	0.097877	0.91925	0.99103	0.99744	0.024315
{'min' }	2.2124	19	0	0	0	0.040834
{'max' }	19.983	64	1	398.19	393.64	1
{'pYis0' }	0	0	0.92486	0.99012	0.99613	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.075143	0.0098752	0.0038729	1
{'pYisMINY' }	0.00055766	0.0068413	0.92486	0.99012	0.99613	0
{'pYisMAXY' }	5.5932e-19	1.4347e-05	0.075143	2.9362e-17	0	0.0001093
{'p0_01' }	2.2124	19	0	0	0	0.45848
{'p10' }	7.1612	24	0	0	0	0.90608
{'p25' }	8.7389	27	0	0	0	0.93304
{'p50' }	16.336	31	0	0	0	0.96104

{'p75' }	18.337	35	0	0	0	0.99858
{'p90' }	19.299	37	0	0	0	0.99993
{'p99_99' }	19.841	61	1	0.39819	0.022495	1
{'fl_cov_y_all' }	23.629	-0.89929	-0.22205	-0.0012344	-0.0001609	0.14389
{'fl_cor_y_all' }	1	-0.03183	-0.17328	-0.019425	-0.0034745	0.56884
{'fl_cov_age_ss' }	-0.89929	33.781	0.29054	-0.0054625	-0.0003972	-0.1219
{'fl_cor_age_ss' }	-0.03183	1	0.18962	-0.071893	-0.0071736	-0.40305
{'fl_cov_educ_ss' }	-0.22205	0.29054	0.069496	-2.1417e-05	1.7108e-06	-0.0014132
{'fl_cor_educ_ss' }	-0.17328	0.18962	1	-0.0062146	0.00068121	-0.10302
{'fl_cov_a_ss' }	-0.0012344	-0.0054625	-2.1417e-05	0.0001709	0.00010971	1.1738e-05
{'fl_cor_a_ss' }	-0.019425	-0.071893	-0.0062146	1	0.88089	0.017255
{'fl_cov_ap_ss' }	-0.0001609	-0.0003972	1.7108e-06	0.00010971	9.0757e-05	-3.5557e-06
{'fl_cor_ap_ss' }	-0.0034745	-0.0071736	0.00068121	0.88089	1	-0.0071725
{'fl_cov_MPC' }	0.14389	-0.1219	-0.0014132	1.1738e-05	-3.5557e-06	0.0027078
{'fl_cor_MPC' }	0.56884	-0.40305	-0.10302	0.017255	-0.0071725	1
{'fl_cov_Mass' }	0.00014165	-1.0373e-05	-3.6818e-06	-2.5801e-08	-2.6237e-09	8.7918e-07
{'fl_cor_Mass' }	0.73104	-0.044773	-0.35037	-0.049512	-0.0069091	0.42385
{'fl_cov_c_ss' }	20.095	-0.82037	-0.18607	-0.00096435	-0.00011609	0.12358
{'fl_cor_c_ss' }	0.99993	-0.034142	-0.17073	-0.017843	-0.0029476	0.57445
{'fl_cov_y_head_inc' }	23.629	-0.89929	-0.22205	-0.0012344	-0.0001609	0.14389
{'fl_cor_y_head_inc' }	1	-0.03183	-0.17328	-0.019425	-0.0034745	0.56884
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	0.098909	-0.0061721	-0.00076992	-3.8412e-06	-5.7497e-07	0.00067201
{'fl_cor_yshr_nttxss'}	0.99039	-0.051689	-0.14216	-0.014302	-0.0029377	0.62859
{'fracByP0_01' }	8.5406e-05	0.0041535	0	0	0	5.8661e-05
{'fracByP10' }	0.0435	0.083353	0	0	0	0.091112
{'fracByP25' }	0.12189	0.20801	0	0	0	0.23734
{'fracByP50' }	0.37751	0.45016	0	0	0	0.52554
{'fracByP75' }	0.68298	0.73407	0	0	0	0.78452
{'fracByP90' }	0.87655	0.86911	0	0	0	0.90452
{'fracByP99_99' }	1	0.99986	1	0.98528	0.85722	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =4, ybin =20 to 40
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	28.145	34.483	0.31628	0.0084967	0.0069938	0.97448
{'unweighted_sum' }	84180	1909	1	6132.2	9.0056e+05	357.07
{'sd' }	6.7928	9.1885	0.46502	0.47651	0.45057	0.047649
{'coefofvar' }	0.24135	0.26646	1.4703	56.082	64.424	0.048897
{'gini' }	0.12913	0.14722	0.59645	0.99793	0.99979	0.015899
{'min' }	20.01	19	0	0	0	0.03135
{'max' }	39.996	64	1	874.82	865.74	1
{'pYis0' }	0	0	0.68372	0.98211	0.99818	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.31628	0.017893	0.001823	1
{'pYisMINY' }	6.8071e-10	0.011592	0.68372	0.98211	0.99818	7.2224e-07
{'pYisMAXY' }	1.0771e-22	7.2677e-05	0.31628	1.2848e-18	0	9.6217e-05
{'p0_01' }	20.082	19	0	0	0	0.061633
{'p10' }	20.506	23	0	0	0	0.94484
{'p25' }	21.131	25	0	0	0	0.94773
{'p50' }	27.826	37	0	0	0	0.99995
{'p75' }	35.402	42	1	0	0	1
{'p90' }	37.85	46	1	0	0	1
{'p99_99' }	39.015	63	1	17.072	15.6	1
{'fl_cov_y_all' }	46.142	-44.601	-0.23801	0.010344	0.0026699	0.12083
{'fl_cor_y_all' }	1	-0.71458	-0.075349	0.0031957	0.00087235	0.37332
{'fl_cov_age_ss' }	-44.601	84.428	0.86378	0.1277	0.15802	-0.18928
{'fl_cor_age_ss' }	-0.71458	1	0.20215	0.029166	0.038169	-0.43232
{'fl_cov_educ_ss' }	-0.23801	0.86378	0.21625	0.002578	0.0031941	0.0034353
{'fl_cor_educ_ss' }	-0.075349	0.20215	1	0.011634	0.015244	0.15504
{'fl_cov_a_ss' }	0.010344	0.1277	0.002578	0.22707	0.21328	-0.0059112

{'fl_cor_a_ss' }	0.0031957	0.029166	0.011634	1	0.99337	-0.26034
{'fl_cov_ap_ss' }	0.0026699	0.15802	0.0031941	0.21328	0.20301	-0.0060281
{'fl_cor_ap_ss' }	0.00087235	0.038169	0.015244	0.99337	1	-0.28078
{'fl_cov_MPC' }	0.12083	-0.18928	0.0034353	-0.0059112	-0.0060281	0.0022705
{'fl_cor_MPC' }	0.37332	-0.43232	0.15504	-0.26034	-0.28078	1
{'fl_cov_Mass' }	9.8424e-05	-0.00013224	-7.8457e-06	-3.5733e-07	-3.0064e-07	2.6291e-07
{'fl_cor_Mass' }	0.41964	-0.4168	-0.48863	-0.021718	-0.019324	0.1598
{'fl_cov_c_ss' }	37.017	-35.772	-0.18136	0.022304	0.012598	0.097151
{'fl_cor_c_ss' }	0.99993	-0.71436	-0.071562	0.0085886	0.0051305	0.37412
{'fl_cov_y_head_inc' }	46.142	-44.601	-0.23801	0.010344	0.0026699	0.12083
{'fl_cor_y_head_inc' }	1	-0.71458	-0.075349	0.0031957	0.00087235	0.37332
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	0.086551	-0.082392	-3.8966e-05	2.8156e-05	1.2552e-05	0.0002315
{'fl_cor_yshr_nttxss'}	0.99621	-0.70108	-0.0065514	0.0046198	0.0021782	0.37985
{'fracByP0_01' }	0.036118	0.0063871	0	0	0	5.4308e-06
{'fracByP10' }	0.099147	0.086367	0	0	0	0.10402
{'fracByP25' }	0.19321	0.17479	0	0	0	0.25097
{'fracByP50' }	0.39405	0.39825	0	0	0	0.50102
{'fracByP75' }	0.72337	0.72117	1	0	0	0.75793
{'fracByP90' }	0.88877	0.87697	1	0	0	0.93473
{'fracByP99_99' }	1	0.99987	1	0.59278	0.49859	0.9999

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =4, ybin =40 to 60
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	47.234	35.09	0.053653	0.41436	0.52933	0.92404
{'unweighted_sum' }	1.0615e+05	1909	1	10762	1.2265e+06	189.05
{'sd' }	4.019	6.1165	0.22533	3.9219	4.4231	0.24445
{'coefofvar' }	0.085087	0.17431	4.1998	9.4648	8.3561	0.26454
{'gini' }	0.047571	0.094942	0.94348	0.99118	0.99002	0.069211
{'min' }	40.029	19	0	0	0	0.00084763
{'max' }	59.999	64	1	1343.9	1330.4	1
{'pYis0' }	0	0	0.94635	0.95807	0.94807	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.053653	0.041934	0.051932	1
{'pYisMINY' }	0	0	0.94635	0.95807	0.94807	1.7899e-06
{'pYisMAXY' }	4.5669e-17	3.3587e-05	0.053653	1.7499e-20	0	0.0076099
{'p0_01' }	40.137	24	0	0	0	0.0098582
{'p10' }	41.215	28	0	0	0	0.84607
{'p25' }	44.166	30	0	0	0	0.99958
{'p50' }	47.418	34	0	0	0	0.99996
{'p75' }	50.384	39	0	0	0	1
{'p90' }	52.422	44	0	0	0	1
{'p99_99' }	57.876	62	1	136.58	136.58	1
{'fl_cov_y_all' }	16.152	18.701	0.30329	2.7682	3.4693	-0.41982
{'fl_cor_y_all' }	1	0.76076	0.3349	0.17563	0.19517	-0.42734
{'fl_cov_age_ss' }	18.701	37.411	-0.37961	7.833	9.8209	-0.99285
{'fl_cor_age_ss' }	0.76076	1	-0.27543	0.32654	0.36301	-0.66405
{'fl_cov_educ_ss' }	0.30329	-0.37961	0.050774	-0.022225	-0.028393	0.0040757
{'fl_cor_educ_ss' }	0.3349	-0.27543	1	-0.025149	-0.028488	0.073993
{'fl_cov_a_ss' }	2.7682	7.833	-0.022225	15.381	17.252	-0.35482
{'fl_cor_a_ss' }	0.17563	0.32654	-0.025149	1	0.99455	-0.37011
{'fl_cov_ap_ss' }	3.4693	9.8209	-0.028393	17.252	19.564	-0.45391
{'fl_cor_ap_ss' }	0.19517	0.36301	-0.028488	0.99455	1	-0.41982
{'fl_cov_MPC' }	-0.41982	-0.99285	0.0040757	-0.35482	-0.45391	0.059754
{'fl_cor_MPC' }	-0.42734	-0.66405	0.073993	-0.37011	-0.41982	1
{'fl_cov_Mass' }	-0.00012586	-0.00015585	-4.4343e-06	-4.2653e-05	-5.4061e-05	6.4648e-06
{'fl_cor_Mass' }	-0.54041	-0.4397	-0.33959	-0.18768	-0.21091	0.45637
{'fl_cov_c_ss' }	11.894	12.603	0.24198	0.28278	0.38838	-0.22787
{'fl_cor_c_ss' }	0.9773	0.68042	0.35463	0.023811	0.028997	-0.30784
{'fl_cov_y_head_inc' }	16.152	18.701	0.30329	2.7682	3.4693	-0.41982

{'fl_cor_y_head_inc' }	1	0.76076	0.3349	0.17563	0.19517	-0.42734
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	0.016876	0.019804	0.0002938	0.0027418	0.0034442	-0.00042484
{'fl_cor_yshr_nttxss'}	0.99822	0.7697	0.30996	0.1662	0.18511	-0.41315
{'fracByP0_01' }	0.042512	0.0014057	0	0	0	0.00011001
{'fracByP10' }	0.090214	0.1038	0	0	0	0.030599
{'fracByP25' }	0.25787	0.22507	0	0	0	0.20916
{'fracByP50' }	0.4971	0.45262	0	0	0	0.50996
{'fracByP75' }	0.74173	0.71454	0	0	0	0.73225
{'fracByP90' }	0.90124	0.88657	0	0	0	0.92498
{'fracByP99_99' }	0.99995	0.99984	1	0.98327	0.97025	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =4, ybin =60 to 80
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	69.373	38.833	0.99995	3.354	4.1357	0.71619
{'unweighted_sum' }	1.3356e+05	1909	1	15665	1.5988e+06	132.29
{'sd' }	4.5432	5.7448	0.0069066	13.204	14.805	0.41423
{'coefofvar' }	0.06549	0.14794	0.0069069	3.9367	3.5799	0.57838
{'gini' }	0.036044	0.080337	2.2757e-09	0.9487	0.94357	0.25099
{'min' }	60.026	19	0	0	0	3.3433e-05
{'max' }	79.98	64	1	1788.7	1770.9	1
{'pYis0' }	0	0	4.7703e-05	0.78876	0.75317	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.99995	0.21124	0.24683	1
{'pYisMINY' }	0	0	4.7703e-05	0.78876	0.75317	0
{'pYisMAXY' }	1.1579e-13	0.00012059	0.99995	1.964e-18	0	0.061232
{'p0_01' }	60.051	31	1	0	0	0.030004
{'p10' }	62.057	32	1	0	0	0.055768
{'p25' }	65.554	34	1	0	0	0.21677
{'p50' }	70.54	38	1	0	0	0.99759
{'p75' }	73.209	42	1	0	0	0.99999
{'p90' }	74.45	47	1	6.2217	9.4857	1
{'p99_99' }	79.472	64	1	203.87	220.46	1
{'fl_cov_y_all' }	20.641	23.521	0.00035224	19.804	24.001	-1.3448
{'fl_cor_y_all' }	1	0.90121	0.011226	0.33014	0.35683	-0.71459
{'fl_cov_age_ss' }	23.521	33.002	-0.00090298	45.264	54.093	-2.0209
{'fl_cor_age_ss' }	0.90121	1	-0.022759	0.59674	0.636	-0.84925
{'fl_cov_educ_ss' }	0.00035224	-0.00090298	4.7701e-05	-0.012062	-0.012016	3.1569e-05
{'fl_cor_educ_ss' }	0.011226	-0.022759	1	-0.13227	-0.11751	0.011035
{'fl_cov_a_ss' }	19.804	45.264	-0.012062	174.33	194.89	-2.1903
{'fl_cor_a_ss' }	0.33014	0.59674	-0.13227	1	0.99697	-0.40047
{'fl_cov_ap_ss' }	24.001	54.093	-0.012016	194.89	219.19	-2.7039
{'fl_cor_ap_ss' }	0.35683	0.636	-0.11751	0.99697	1	-0.44089
{'fl_cov_MPC' }	-1.3448	-2.0209	3.1569e-05	-2.1903	-2.7039	0.17158
{'fl_cor_MPC' }	-0.71459	-0.84925	0.011035	-0.40047	-0.44089	1
{'fl_cov_Mass' }	-4.0482e-05	-6.5186e-05	1.3731e-09	-9.0882e-05	-0.00010997	4.8314e-06
{'fl_cor_Mass' }	-0.52592	-0.66975	0.011735	-0.40627	-0.4384	0.68843
{'fl_cov_c_ss' }	11.648	9.2201	0.00022443	-5.3734	-5.9056	-0.51792
{'fl_cor_c_ss' }	0.8328	0.52132	0.010555	-0.13219	-0.12956	-0.40613
{'fl_cov_y_head_inc' }	20.641	23.521	0.00035224	19.804	24.001	-1.3448
{'fl_cor_y_head_inc' }	1	0.90121	0.011226	0.33014	0.35683	-0.71459
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	0.013469	0.015124	2.3625e-07	0.012273	0.014901	-0.00085075
{'fl_cor_yshr_nttxss'}	0.99912	0.88723	0.011528	0.31327	0.3392	-0.69217
{'fracByP0_01' }	0.053004	0.048882	1	0	0	0.0015161
{'fracByP10' }	0.11195	0.10315	1	0	0	0.0076716
{'fracByP25' }	0.24231	0.22369	1	0	0	0.031798
{'fracByP50' }	0.51347	0.48042	1	0	0	0.3361
{'fracByP75' }	0.7363	0.70408	1	0	0	0.72384

{'fracByP90' }	0.90794	0.88617	1	0.094193	0.12365	0.9145
{'fracByP99_99' }	0.99991	1	1	0.99371	0.99475	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =4, ybin =80 to 100
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	91.313	24.402	0.0066575	0.15115	0.13928	0.99608
{'unweighted_sum' }	1.3006e+05	1909	1	22077	1.9775e+06	146.9
{'sd' }	6.0661	2.3431	0.081321	6.0105	6.1012	0.029991
{'coefofvar' }	0.066432	0.096021	12.215	39.764	43.806	0.030108
{'gini' }	0.029754	0.040819	0.9933	0.99621	0.99967	0.0029737
{'min' }	80.002	19	0	0	0	0.029767
{'max' }	99.95	64	1	2322.2	2299.2	1
{'pYis0' }	0	0	0.99334	0.94835	0.98528	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.0066575	0.051655	0.014724	1
{'pYisMINY' }	2.1787e-05	0.027024	0.99334	0.94835	0.98528	1.2616e-06
{'pYisMAXY' }	0	2.1863e-05	0.0066575	2.4925e-21	0	0.00054508
{'p0_01' }	80.31	19	0	0	0	0.0614
{'p10' }	80.642	21	0	0	0	0.99996
{'p25' }	86.982	23	0	0	0	0.99997
{'p50' }	92.997	25	0	0	0	1
{'p75' }	95.86	26	0	0	0	1
{'p90' }	98.617	27	0	0	0	1
{'p99_99' }	98.617	60	1	290.28	298.87	1
{'fl_cov_y_all' }	36.797	13.096	-0.0022457	-1.3684	-1.241	0.041346
{'fl_cor_y_all' }	1	0.92137	-0.0045523	-0.037531	-0.033531	0.22727
{'fl_cov_age_ss' }	13.096	5.4903	0.0057945	4.3535	4.4824	0.0019446
{'fl_cor_age_ss' }	0.92137	1	0.03041	0.30913	0.31354	0.027673
{'fl_cov_educ_ss' }	-0.0022457	0.0057945	0.0066132	0.13543	0.13745	-0.00049478
{'fl_cor_educ_ss' }	-0.0045523	0.03041	1	0.27708	0.27703	-0.20287
{'fl_cov_a_ss' }	-1.3684	4.3535	0.13543	36.126	36.666	-0.12646
{'fl_cor_a_ss' }	-0.037531	0.30913	0.27708	1	0.99984	-0.70155
{'fl_cov_ap_ss' }	-1.241	4.4824	0.13745	36.666	37.225	-0.12857
{'fl_cor_ap_ss' }	-0.033531	0.31354	0.27703	0.99984	1	-0.70262
{'fl_cov_MPC' }	0.041346	0.0019446	-0.00049478	-0.12646	-0.12857	0.00089943
{'fl_cor_MPC' }	0.22727	0.027673	-0.20287	-0.70155	-0.70262	1
{'fl_cov_Mass' }	0.00012252	4.4326e-05	-3.1271e-07	-7.1547e-06	-6.6621e-06	1.5627e-07
{'fl_cor_Mass' }	0.72277	0.67695	-0.13761	-0.042597	-0.039074	0.18646
{'fl_cov_c_ss' }	27.86	9.8322	-0.0037281	-1.581	-1.5039	0.033577
{'fl_cor_c_ss' }	0.99954	0.91322	-0.0099771	-0.057246	-0.053646	0.24366
{'fl_cov_y_head_inc' }	36.797	13.096	-0.0022457	-1.3684	-1.241	0.041346
{'fl_cor_y_head_inc' }	1	0.92137	-0.0045523	-0.037531	-0.033531	0.22727
{'fl_cov_y_spouse' }	0	0	0	0	0	0
{'fl_cor_y_spouse' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cov_yshr_nttxss'}	0.016293	0.0058066	-9.3097e-07	-0.00062098	-0.00056248	1.8956e-05
{'fl_cor_yshr_nttxss'}	0.99912	0.92181	-0.0042584	-0.038432	-0.034293	0.23512
{'fracByP0_01' }	0.00011209	0.021041	0	0	0	5.6148e-06
{'fracByP10' }	0.11364	0.10716	0	0	0	0.10512
{'fracByP25' }	0.28931	0.28452	0	0	0	0.26374
{'fracByP50' }	0.58135	0.57582	0	0	0	0.66766
{'fracByP75' }	0.77772	0.771	0	0	0	0.77351
{'fracByP90' }	1	0.99872	0	0	0	0.99945
{'fracByP99_99' }	1	0.99974	1	0.82051	0.75223	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =0, kids =4, ybin =100 to 1414.0634
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	178.54	35.714	0.23911	20.524	24.792	0.64931

```
    {'unweighted_sum'    }    8.9657e+06          1909             1     1.0976e+05     6.3935e+07        1564.7
    {'sd'                }        116.37        6.4137         0.42654         96.948         107.39       0.45091
    {'coefofvar'         }       0.65181       0.17958          1.7839         4.7235         4.3317       0.69445
    {'gini'              }       0.27569      0.097454         0.70771         0.94705        0.94123       0.33142
    {'min'               }        100.05            19               0               0              0    8.2058e-06
    {'max'               }        1413.7            64               1          7837.6         8170.7             1
    {'pYis0'             }             0             0         0.76089         0.72795        0.69041             0
    {'pYls0'             }             0             0               0               0              0             0
    {'pYgr0'             }             1             1         0.23911         0.27205        0.30959             1
    {'pYisMINY'          }             0      0.001098         0.76089         0.72795        0.69041             0
    {'pYisMAXY'          }    7.4561e-12     5.3269e-05         0.23911     1.9072e-06      9.438e-08     0.0048453
    {'p0_01'             }        101.26            19               0               0              0    0.00053862
    {'p10'               }        106.22            28               0               0              0      0.022665
    {'p25'               }        114.69            31               0               0              0      0.061635
    {'p50'               }        126.15            35               0               0              0       0.99814
    {'p75'               }        187.53            40               0         0.39819         3.6172       0.99999
    {'p90'               }         301.4            44               1          36.285         57.605             1
    {'p99_99'            }        1200.8            63               1          2952.5         3100.8             1
    {'fl_cov_y_all'      }         13543         69.767          10.952          4544.2         5308.7        -12.061
    {'fl_cor_y_all'      }             1       0.093474         0.22065         0.40278        0.42478       -0.22985
    {'fl_cov_age_ss'     }        69.767         41.135         0.27597          264.87         308.67        -2.3218
    {'fl_cor_age_ss'     }      0.093474              1         0.10088         0.42598        0.44814       -0.80285
    {'fl_cov_educ_ss'    }        10.952        0.27597         0.18194           5.903         6.9041      -0.034148
    {'fl_cor_educ_ss'    }       0.22065        0.10088               1         0.14275        0.15072       -0.17755
    {'fl_cov_a_ss'       }        4544.2         264.87           5.903          9398.9          10394        -12.192
    {'fl_cor_a_ss'       }       0.40278        0.42598         0.14275               1        0.99835       -0.27891
    {'fl_cov_ap_ss'      }        5308.7         308.67          6.9041           10394          11533        -14.734
    {'fl_cor_ap_ss'      }       0.42478        0.44814         0.15072         0.99835              1       -0.30426
    {'fl_cov_MPC'        }       -12.061        -2.3218       -0.034148          -12.192        -14.734        0.20332
    {'fl_cor_MPC'        }      -0.22985       -0.80285        -0.17755         -0.27891       -0.30426              1
    {'fl_cov_Mass'       }    -0.0021932    -9.1067e-05    -7.1257e-06      -0.00082568    -0.00098906    9.1115e-06
    {'fl_cor_Mass'       }       -0.4785        -0.3605        -0.42415         -0.21624       -0.23383        0.51305
    {'fl_cov_c_ss'       }        9343.7         8.4812          7.2028             2393         2819.8        -6.4831
    {'fl_cor_c_ss'       }       0.99225       0.016342         0.20869         0.30504        0.32449       -0.17768
    {'fl_cov_y_head_inc' }         13543         69.767          10.952          4544.2         5308.7        -12.061
    {'fl_cor_y_head_inc' }             1       0.093474         0.22065         0.40278        0.42478       -0.22985
    {'fl_cov_y_spouse'   }             0              0               0               0              0              0
    {'fl_cor_y_spouse'   }           NaN            NaN             NaN             NaN            NaN            NaN
    {'fl_cov_yshr_nttxss'}        1.1627       0.010889       0.0016131         0.31752        0.37634      -0.0015489
    {'fl_cor_yshr_nttxss'}       0.87632        0.14891         0.33171         0.28727        0.30737       -0.3013
    {'fracByP0_01'       }      0.019742     0.00058413               0               0              0    1.0487e-06
    {'fracByP10'         }      0.065089       0.079308               0               0              0     0.0012679
    {'fracByP25'         }       0.16435        0.22883               0               0              0       0.01316
    {'fracByP50'         }       0.31974        0.46109               0               0              0       0.23041
    {'fracByP75'         }       0.53572        0.72288               0      0.00035938      0.0031666       0.67278
    {'fracByP90'         }       0.75209        0.86579               1         0.10001         0.1327       0.84642
    {'fracByP99_99'      }       0.99931         0.9999               1         0.98404        0.98347             1
  0×0 empty char array
  0×0 empty char array
------------------------------
------------------------------
------------------------------
------------------------------
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
------------------------------
------------------------------
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1 and kids =0
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =0, ybin =0 to 20
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx
```

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean'}	15.607	26.391	0.2582	13.298	12.283	0.35518
{'unweighted_sum'}	65717	1909	1	2195	2.9417e+05	874.47
{'sd'}	3.8583	12.607	0.43765	39.767	35.137	0.19862
{'coefofvar'}	0.24722	0.47771	1.695	2.9905	2.8606	0.55923
{'gini'}	0.1238	0.20843	0.68062	0.84191	0.8035	0.287
{'min'}	2.4223	19	0	0	0	0.041575
{'max'}	19.997	64	1	398.19	377.85	0.97304
{'pYis0'}	0	0	0.7418	0.31131	0.15473	0
{'pYls0'}	0	0	0	0	0	0
{'pYgr0'}	1	1	0.2582	0.68869	0.84527	1
{'pYisMINY'}	0.00026741	0.26867	0.7418	0.31131	0.15473	0
{'pYisMAXY'}	2.5561e-07	0.013933	0.2582	0.0004166	0	5.8397e-05
{'p0_01'}	2.4223	19	0	0	0	0.046527
{'p10'}	10.81	19	0	0	0	0.092249
{'p25'}	12.608	19	0	0	1.3439	0.21746
{'p50'}	15.919	21	0	1.3439	2.4605	0.31843
{'p75'}	19.42	26	1	6.2217	6.2217	0.56985
{'p90'}	19.946	54	1	17.072	16.505	0.5751
{'p99_99'}	19.991	64	1	398.19	365.43	0.93415
{'fl_cov_y_all'}	14.886	3.8315	-0.48733	13.72	15.294	0.0068503
{'fl_cor_y_all'}	1	0.07877	-0.28861	0.089419	0.11281	0.0089388
{'fl_cov_age_ss'}	3.8315	158.94	-0.66217	161.87	131.37	-0.90918
{'fl_cor_age_ss'}	0.07877	1	-0.12001	0.32287	0.29656	-0.36308
{'fl_cov_educ_ss'}	-0.48733	-0.66217	0.19153	-0.74508	-0.75839	-0.0049986
{'fl_cor_educ_ss'}	-0.28861	-0.12001	1	-0.042811	-0.049317	-0.057504
{'fl_cov_a_ss'}	13.72	161.87	-0.74508	1581.4	1390.8	-3.1799
{'fl_cor_a_ss'}	0.089419	0.32287	-0.042811	1	0.99538	-0.40259
{'fl_cov_ap_ss'}	15.294	131.37	-0.75839	1390.8	1234.6	-2.8016
{'fl_cor_ap_ss'}	0.11281	0.29656	-0.049317	0.99538	1	-0.40143
{'fl_cov_MPC'}	0.0068503	-0.90918	-0.0049986	-3.1799	-2.8016	0.039452
{'fl_cor_MPC'}	0.0089388	-0.36308	-0.057504	-0.40259	-0.40143	1
{'fl_cov_Mass'}	0.00048407	-0.0011079	-3.1567e-05	-0.0020489	-0.0016792	1.7171e-05
{'fl_cor_Mass'}	0.57026	-0.39943	-0.32784	-0.23419	-0.21722	0.39295
{'fl_cov_c_ss'}	15.01	40.902	-0.42962	187.12	162.38	-0.51878
{'fl_cor_c_ss'}	0.59942	0.4999	-0.15126	0.72504	0.71208	-0.40245
{'fl_cov_y_head_inc'}	10.468	-3.8251	-0.44178	28.73	21.859	0.15809
{'fl_cor_y_head_inc'}	0.67396	-0.075371	-0.25076	0.17947	0.15454	0.19773
{'fl_cov_y_spouse'}	9.6984	16.805	-0.099985	-32.945	-14.41	-0.33196
{'fl_cor_y_spouse'}	0.35937	0.19058	-0.032662	-0.11844	-0.058634	-0.23894
{'fl_cov_yshr_nttxss'}	0.056164	0.023559	-0.0013795	-0.010363	0.023095	-0.00036279
{'fl_cor_yshr_nttxss'}	0.8149	0.10461	-0.17646	-0.014587	0.036795	-0.10225
{'fracByP0_01'}	4.1504e-05	0.19343	0	0	0	1.2899e-05
{'fracByP10'}	0.064146	0.19343	0	0	0	0.019697
{'fracByP25'}	0.17163	0.19343	0	0	0.01818	0.088227
{'fracByP50'}	0.39774	0.41724	0	0.019567	0.055414	0.27785
{'fracByP75'}	0.79528	0.60981	1	0.1298	0.1369	0.7802
{'fracByP90'}	0.99882	0.77635	1	0.21116	0.23939	0.84113
{'fracByP99_99'}	0.9999	1	1	1	0.99714	0.99984

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =0, ybin =20 to 40
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean'}	30.38	36.755	0.3005	81.771	77.519	0.20759
{'unweighted_sum'}	1.8965e+05	1909	1	6132.2	1.3398e+06	700.48
{'sd'}	6.3516	15.611	0.45848	127.25	119.78	0.17965
{'coefofvar'}	0.20907	0.42474	1.5257	1.5562	1.5452	0.8654
{'gini'}	0.11882	0.23759	0.61952	0.71347	0.7177	0.42918
{'min'}	20.001	19	0	0	0	0.019732
{'max'}	39.992	64	1	874.82	851.67	0.93373

{'pYis0' }	0	0	0.6995	0.14061	0.047939	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.3005	0.85939	0.95206	1
{'pYisMINY' }	2.4682e-05	0.10583	0.6995	0.14061	0.047939	4.8362e-05
{'pYisMAXY' }	0.0003247	0.024438	0.3005	3.2656e-05	0	0.00012135
{'p0_01' }	20.012	19	0	0	0	0.030687
{'p10' }	21.443	19	0	0	0.67695	0.054299
{'p25' }	24.048	22	0	3.1855	3.1855	0.066217
{'p50' }	31.607	31	0	10.751	12.164	0.137
{'p75' }	35.888	52	1	136.58	124.02	0.29515
{'p90' }	38.79	60	1	290.28	268.36	0.38027
{'p99_99' }	39.992	64	1	777.71	734.72	0.93373
{'fl_cov_y_all' }	40.343	27.884	-0.78735	220.23	213.05	-0.30316
{'fl_cor_y_all' }	1	0.28122	-0.27038	0.27248	0.28004	-0.26568
{'fl_cov_age_ss' }	27.884	243.71	-2.3818	689.77	663.61	-1.4351
{'fl_cor_age_ss' }	0.28122	1	-0.33278	0.34723	0.3549	-0.5117
{'fl_cov_educ_ss' }	-0.78735	-2.3818	0.2102	-6.4072	-6.3906	0.028651
{'fl_cor_educ_ss' }	-0.27038	-0.33278	1	-0.10982	-0.11637	0.34786
{'fl_cov_a_ss' }	220.23	689.77	-6.4072	16192	15229	-11.685
{'fl_cor_a_ss' }	0.27248	0.34723	-0.10982	1	0.99917	-0.51116
{'fl_cov_ap_ss' }	213.05	663.61	-6.3906	15229	14347	-10.97
{'fl_cor_ap_ss' }	0.28004	0.3549	-0.11637	0.99917	1	-0.50982
{'fl_cov_MPC' }	-0.30316	-1.4351	0.028651	-11.685	-10.97	0.032273
{'fl_cor_MPC' }	-0.26568	-0.5117	0.34786	-0.51116	-0.50982	1
{'fl_cov_Mass' }	7.6111e-05	-0.0018428	8.61e-06	-0.0091488	-0.008566	1.506e-05
{'fl_cor_Mass' }	0.050122	-0.49375	0.078551	-0.30073	-0.29913	0.35064
{'fl_cov_c_ss' }	44.117	64.885	-0.70485	1097	1023.1	-1.1635
{'fl_cor_c_ss' }	0.65079	0.38943	-0.14405	0.80775	0.80029	-0.60684
{'fl_cov_y_head_inc' }	34.774	9.9429	-0.71312	262.22	241.57	-0.079152
{'fl_cor_y_head_inc' }	0.81701	0.095046	-0.23211	0.30751	0.30096	-0.06575
{'fl_cov_y_spouse' }	12.223	39.379	-0.16293	-92.165	-62.585	-0.49166
{'fl_cor_y_spouse' }	0.22128	0.29006	-0.040865	-0.083285	-0.060082	-0.3147
{'fl_cov_yshr_nttxss'}	0.059574	0.060799	-0.0010929	0.22079	0.23351	-0.00072467
{'fl_cor_yshr_nttxss'}	0.83459	0.34655	-0.21212	0.1544	0.17347	-0.35894
{'fracByP0_01' }	0.00014684	0.054705	0	0	0	6.1988e-05
{'fracByP10' }	0.079416	0.054705	0	0	0.0005208	0.023422
{'fracByP25' }	0.18808	0.14268	0	0.0069608	0.004743	0.066818
{'fracByP50' }	0.40934	0.31982	0	0.023528	0.024852	0.1819
{'fracByP75' }	0.68895	0.60167	1	0.1979	0.16548	0.45597
{'fracByP90' }	0.87	0.84067	1	0.60927	0.5276	0.70458
{'fracByP99_99' }	1	1	1	0.99965	0.99902	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =0, ybin =40 to 60
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	48.365	37.966	0.39479	209.1	201.54	0.2461
{'unweighted_sum' }	2.3893e+05	1909	1	10762	2.257e+06	377.22
{'sd' }	5.8707	15.915	0.4888	239.71	231.82	0.27729
{'coefofvar' }	0.12138	0.4192	1.2381	1.1464	1.1503	1.1268
{'gini' }	0.069723	0.23387	0.48127	0.59376	0.61871	0.53987
{'min' }	40.002	19	0	0	0	0.0029997
{'max' }	60	64	1	1343.9	1319.2	0.93314
{'pYis0' }	0	0	0.60521	0.13883	0.10821	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.39479	0.86117	0.89179	1
{'pYisMINY' }	1.5933e-07	0.046311	0.60521	0.13883	0.10821	4.3457e-07
{'pYisMAXY' }	2.9309e-07	0.02724	0.39479	1.2784e-05	0	0.018677
{'p0_01' }	40.003	19	0	0	0	0.0096293
{'p10' }	41.225	20	0	0	0	0.045958
{'p25' }	42.639	23	0	0.39819	0.91229	0.053454
{'p50' }	48.06	33	0	109.35	107.35	0.070553
{'p75' }	53.332	54	1	398.19	387.48	0.38335

{'p90' }	57.145	61	1	529.99	518.76	0.77967
{'p99_99' }	59.992	64	1	1213.9	1163.2	0.93314
{'fl_cov_y_all' }	34.465	27.211	-0.21566	570	549.52	-0.37238
{'fl_cor_y_all' }	1	0.29124	-0.075154	0.40504	0.40378	-0.22876
{'fl_cov_age_ss' }	27.211	253.3	-1.3695	2487.4	2437.2	-2.7506
{'fl_cor_age_ss' }	0.29124	1	-0.17604	0.65198	0.66057	-0.62326
{'fl_cov_educ_ss' }	-0.21566	-1.3695	0.23893	-32.732	-31.824	0.052878
{'fl_cor_educ_ss' }	-0.075154	-0.17604	1	-0.27935	-0.28085	0.39013
{'fl_cov_a_ss' }	570	2487.4	-32.732	57462	55549	-40.114
{'fl_cor_a_ss' }	0.40504	0.65198	-0.27935	1	0.99961	-0.60349
{'fl_cov_ap_ss' }	549.52	2437.2	-31.824	55549	53741	-38.664
{'fl_cor_ap_ss' }	0.40378	0.66057	-0.28085	0.99961	1	-0.60148
{'fl_cov_MPC' }	-0.37238	-2.7506	0.052878	-40.114	-38.664	0.076889
{'fl_cor_MPC' }	-0.22876	-0.62326	0.39013	-0.60349	-0.60148	1
{'fl_cov_Mass' }	-0.00056363	-0.0019853	3.2699e-05	-0.024274	-0.023333	3.1484e-05
{'fl_cor_Mass' }	-0.43039	-0.55919	0.29988	-0.45394	-0.45119	0.50899
{'fl_cov_c_ss' }	52.061	86.272	-0.67049	2405.3	2294.1	-1.9286
{'fl_cor_c_ss' }	0.70495	0.43091	-0.10904	0.79766	0.78667	-0.55289
{'fl_cov_y_head_inc' }	29.013	10.87	-0.65452	512.94	481.4	-0.1641
{'fl_cor_y_head_inc' }	0.79029	0.10922	-0.21413	0.34219	0.33208	-0.094638
{'fl_cov_y_spouse' }	11.966	35.867	0.96323	125.23	149.52	-0.45716
{'fl_cor_y_spouse' }	0.23556	0.26043	0.22773	0.060374	0.074534	-0.19052
{'fl_cov_yshr_nttxss'}	0.030453	0.036261	0.00020878	0.48006	0.47511	-0.00046692
{'fl_cor_yshr_nttxss'}	0.82001	0.36016	0.067517	0.31657	0.32398	-0.26618
{'fracByP0_01' }	0.00025526	0.023176	0	0	0	4.003e-06
{'fracByP10' }	0.12068	0.063911	0	0	0	0.017322
{'fracByP25' }	0.2233	0.1623	0	0.0001884	0.00026981	0.047882
{'fracByP50' }	0.44872	0.31482	0	0.022808	0.021642	0.10826
{'fracByP75' }	0.70965	0.61603	1	0.40554	0.33312	0.3435
{'fracByP90' }	0.8805	0.86485	1	0.67583	0.67141	0.6222
{'fracByP99_99' }	1	1	1	0.99992	0.99943	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =0, ybin =60 to 80
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	69.784	47.925	0.27044	363.47	356.93	0.097388
{'unweighted_sum' }	2.8486e+05	1909	1	15665	2.9577e+06	251.68
{'sd' }	5.262	11.923	0.44419	345.43	334.42	0.12034
{'coefofvar' }	0.075404	0.24878	1.6424	0.95037	0.93693	1.2356
{'gini' }	0.043185	0.13548	0.66308	0.50194	0.51732	0.44266
{'min' }	60.01	19	0	0	0	0.0031875
{'max' }	79.999	64	1	1788.7	1770.6	0.9325
{'pYis0' }	0	0	0.72956	0.04114	0.017725	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.27044	0.95886	0.98227	1
{'pYisMINY' }	6.8132e-08	0	0.72956	0.04114	0.017725	3.4919e-08
{'pYisMAXY' }	1.2835e-05	0.042259	0.27044	3.7862e-06	0	1.4348e-05
{'p0_01' }	60.015	21	0	0	0	0.012667
{'p10' }	62.453	29	0	6.2217	7.9439	0.041139
{'p25' }	65.893	38	0	49.774	57.688	0.047385
{'p50' }	69.412	51	0	244.54	258.01	0.055928
{'p75' }	73.998	58	1	605.6	593.31	0.067778
{'p90' }	77.567	62	1	874.82	855.97	0.25436
{'p99_99' }	79.987	64	1	1631	1566.6	0.90603
{'fl_cov_y_all' }	27.689	10.244	-0.11329	252.78	255.85	-0.13292
{'fl_cor_y_all' }	1	0.16328	-0.048472	0.13907	0.14539	-0.20991
{'fl_cov_age_ss' }	10.244	142.15	-1.3222	1318.6	1360.1	-0.63355
{'fl_cor_age_ss' }	0.16328	1	-0.24966	0.32015	0.3411	-0.44157
{'fl_cov_educ_ss' }	-0.11329	-1.3222	0.1973	19.742	17.55	0.013754
{'fl_cor_educ_ss' }	-0.048472	-0.24966	1	0.12867	0.11815	0.25732
{'fl_cov_a_ss' }	252.78	1318.6	19.742	1.1932e+05	1.1547e+05	-16.524
{'fl_cor_a_ss' }	0.13907	0.32015	0.12867	1	0.99955	-0.39752

{'fl_cov_ap_ss' }	255.85	1360.1	17.55	1.1547e+05	1.1184e+05	-16.172
{'fl_cor_ap_ss' }	0.14539	0.3411	0.11815	0.99955	1	-0.40186
{'fl_cov_MPC' }	-0.13292	-0.63355	0.013754	-16.524	-16.172	0.014481
{'fl_cor_MPC' }	-0.20991	-0.44157	0.25732	-0.39752	-0.40186	1
{'fl_cov_Mass' }	-2.563e-05	-6.6127e-05	2.2965e-06	-0.0028768	-0.002753	2.5947e-06
{'fl_cor_Mass' }	-0.15914	-0.1812	0.16892	-0.2721	-0.26896	0.70447
{'fl_cov_c_ss' }	18.448	-43.667	2.3179	3727.3	3524.1	-0.39983
{'fl_cor_c_ss' }	0.24138	-0.25217	0.35928	0.74291	0.72555	-0.22877
{'fl_cov_y_head_inc' }	27.222	21.208	-0.34663	604.64	586.12	-0.19155
{'fl_cor_y_head_inc' }	0.79292	0.27263	-0.11961	0.26829	0.26863	-0.24398
{'fl_cov_y_spouse' }	1.0251	-24.064	0.51214	-772.3	-724.9	0.1287
{'fl_cor_y_spouse' }	0.022321	-0.23125	0.13211	-0.25617	-0.24837	0.12254
{'fl_cov_yshr_nttxss'}	0.013414	-0.0012583	6.8748e-05	-0.098955	-0.083429	-2.7158e-05
{'fl_cor_yshr_nttxss'}	0.71811	-0.02973	0.0436	-0.080698	-0.070277	-0.063575
{'fracByP0_01' }	0.00013156	8.4388e-05	0	0	0	0.00014434
{'fracByP10' }	0.087781	0.059668	0	0.00083837	0.0008338	0.037642
{'fracByP25' }	0.226	0.16555	0	0.01134	0.011799	0.10636
{'fracByP50' }	0.46929	0.42276	0	0.11064	0.1165	0.23867
{'fracByP75' }	0.72573	0.6905	1	0.41954	0.40567	0.39586
{'fracByP90' }	0.89107	0.88858	1	0.74914	0.716	0.57355
{'fracByP99_99' }	0.99999	1	1	0.99998	0.99956	0.99953

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =0, ybin =80 to 100
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	90.172	44.118	0.37687	437.09	433.03	0.2224
{'unweighted_sum' }	3.2476e+05	1909	1	22077	3.6678e+06	254.69
{'sd' }	5.32	15.647	0.4846	402.63	393.99	0.32242
{'coefofvar' }	0.058998	0.35467	1.2859	0.92117	0.90983	1.4498
{'gini' }	0.033642	0.19478	0.50746	0.49029	0.5098	0.61767
{'min' }	80.004	19	0	0	0	0.0041702
{'max' }	99.998	64	1	2322.2	2302.9	0.99203
{'pYis0' }	0	0	0.62313	0.1399	0.11019	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.37687	0.8601	0.88981	1
{'pYisMINY' }	0	0.072238	0.62313	0.1399	0.11019	6.9667e-07
{'pYisMAXY' }	0.0010007	0.040164	0.37687	5.1195e-07	0	0.00079766
{'p0_01' }	80.013	19	0	0	0	0.013037
{'p10' }	82.508	20	0	0	0	0.036741
{'p25' }	86.404	30	0	6.2217	7.7167	0.044479
{'p50' }	90.116	49	0	460.95	455.18	0.055344
{'p75' }	94.208	58	1	688.07	685.63	0.31538
{'p90' }	97.265	62	1	979.69	958.27	0.93297
{'p99_99' }	99.998	64	1	1956.3	1911.9	0.99203
{'fl_cov_y_all' }	28.302	-2.4533	0.50685	-18.668	-10.628	0.15939
{'fl_cor_y_all' }	1	-0.029471	0.1966	-0.0087152	-0.0050704	0.092921
{'fl_cov_age_ss' }	-2.4533	244.83	-1.5252	4027	4028.6	-3.8355
{'fl_cor_age_ss' }	-0.029471	1	-0.20115	0.6392	0.65349	-0.76026
{'fl_cov_educ_ss' }	0.50685	-1.5252	0.23484	-54.978	-54.578	0.019424
{'fl_cor_educ_ss' }	0.1966	-0.20115	1	-0.28177	-0.28586	0.12432
{'fl_cov_a_ss' }	-18.668	4027	-54.978	1.6211e+05	1.5858e+05	-75.916
{'fl_cor_a_ss' }	-0.0087152	0.6392	-0.28177	1	0.99969	-0.58478
{'fl_cov_ap_ss' }	-10.628	4028.6	-54.578	1.5858e+05	1.5523e+05	-75.183
{'fl_cor_ap_ss' }	-0.0050704	0.65349	-0.28586	0.99969	1	-0.59184
{'fl_cov_MPC' }	0.15939	-3.8355	0.019424	-75.916	-75.183	0.10396
{'fl_cor_MPC' }	0.092921	-0.76026	0.12432	-0.58478	-0.59184	1
{'fl_cov_Mass' }	2.5299e-05	-0.0016619	-4.649e-07	-0.031645	-0.031236	2.9718e-05
{'fl_cor_Mass' }	0.029351	-0.65552	-0.0059211	-0.48509	-0.48933	0.56889
{'fl_cov_c_ss' }	16.582	14.915	0.53183	3548.4	3395.2	-1.2163
{'fl_cor_c_ss' }	0.23752	0.072635	0.083629	0.67157	0.65668	-0.28746
{'fl_cov_y_head_inc' }	24.775	-22.757	-0.099811	-54.352	-61.962	0.82631
{'fl_cor_y_head_inc' }	0.70623	-0.22056	-0.031235	-0.020471	-0.02385	0.38865

{'fl_cov_y_spouse' }	7.7428	44.565	1.3315	78.32	112.67	-1.4638
{'fl_cor_y_spouse' }	0.14062	0.27519	0.26549	0.018795	0.027632	-0.43866
{'fl_cov_yshr_nttxss'}	0.011354	0.0077724	0.00040724	0.019108	0.028654	-0.00022602
{'fl_cor_yshr_nttxss'}	0.7222	0.16808	0.28436	0.016059	0.024609	-0.23721
{'fracByP0_01' }	0.00023945	0.03111	0	0	0	2.5689e-05
{'fracByP10' }	0.090804	0.057749	0	0	0	0.014813
{'fracByP25' }	0.23142	0.12202	0	0.00038091	0.00038973	0.042342
{'fracByP50' }	0.49424	0.36276	0	0.17022	0.12394	0.098507
{'fracByP75' }	0.73095	0.68329	1	0.4973	0.44546	0.23615
{'fracByP90' }	0.89176	0.89049	1	0.74462	0.71781	0.65578
{'fracByP99_99' }	1	1	1	0.99984	0.99959	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =0, ybin =100 to 2113.2092
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	241.99	48.353	0.43837	969.16	1057.9	0.11102
{'unweighted_sum' }	4.1879e+07	1909	1	1.0976e+05	2.223e+08	3476.4
{'sd' }	165.91	12.99	0.49619	908.84	922.89	0.21552
{'coefofvar' }	0.68562	0.26864	1.1319	0.93776	0.87237	1.9412
{'gini' }	0.32239	0.14151	0.41846	0.46523	0.44195	0.55701
{'min' }	100	19	0	0	0	3.1099e-08
{'max' }	2112.7	64	1	7837.6	9493.6	0.99203
{'pYis0' }	0	0	0.56163	0.083843	0.061181	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.43837	0.91616	0.93882	1
{'pYisMINY' }	6.0383e-07	0.012597	0.56163	0.083843	0.061181	3.015e-07
{'pYisMAXY' }	3.8972e-07	0.046489	0.43837	0.0020141	3.8972e-07	0.00323
{'p0_01' }	100.11	19	0	0	0	5.1738e-08
{'p10' }	110.82	26	0	1.3439	38.011	0.03778
{'p25' }	132.88	40	0	290.28	424.77	0.044107
{'p50' }	184.02	52	0	874.82	908.24	0.051017
{'p75' }	283.79	59	1	1343.9	1465.7	0.057941
{'p90' }	452.82	62	1	1956.3	2109.6	0.094894
{'p99_99' }	1933.1	64	1	7837.6	9107.2	0.99203
{'fl_cov_y_all' }	27527	124.78	5.6089	63253	85636	-4.6107
{'fl_cor_y_all' }	1	0.057899	0.068132	0.41948	0.55928	-0.12894
{'fl_cov_age_ss' }	124.78	168.73	-0.30143	6335.4	6312	-1.3865
{'fl_cor_age_ss' }	0.057899	1	-0.046767	0.53665	0.52652	-0.49525
{'fl_cov_educ_ss' }	5.6089	-0.30143	0.2462	33.081	31.985	0.0046554
{'fl_cor_educ_ss' }	0.068132	-0.046767	1	0.073357	0.069848	0.043533
{'fl_cov_a_ss' }	63253	6335.4	33.081	8.2599e+05	8.215e+05	-60.121
{'fl_cor_a_ss' }	0.41948	0.53665	0.073357	1	0.97942	-0.30693
{'fl_cov_ap_ss' }	85636	6312	31.985	8.215e+05	8.5173e+05	-65.825
{'fl_cor_ap_ss' }	0.55928	0.52652	0.069848	0.97942	1	-0.33094
{'fl_cov_MPC' }	-4.6107	-1.3865	0.0046554	-60.121	-65.825	0.046451
{'fl_cor_MPC' }	-0.12894	-0.49525	0.043533	-0.30693	-0.33094	1
{'fl_cov_Mass' }	-0.001708	-9.8434e-05	-1.172e-06	-0.0068005	-0.0083002	4.9832e-06
{'fl_cor_Mass' }	-0.31453	-0.23152	-0.072164	-0.22861	-0.27478	0.70641
{'fl_cov_c_ss' }	8253.7	2.6183	5.5612	38197	39125	-0.63352
{'fl_cor_c_ss' }	0.71568	0.0028998	0.16124	0.60463	0.60988	-0.042287
{'fl_cov_y_head_inc' }	16115	252.67	5.2785	78308	79327	-1.3484
{'fl_cor_y_head_inc' }	0.71041	0.14227	0.077807	0.63018	0.62866	-0.045758
{'fl_cov_y_spouse' }	25047	-280.71	0.72505	-33044	13847	-7.1603
{'fl_cor_y_spouse' }	0.5815	-0.083242	0.0056286	-0.14005	0.057794	-0.12797
{'fl_cov_yshr_nttxss'}	1.6995	-0.00046072	0.00020526	2.2486	3.9817	-0.00044849
{'fl_cor_yshr_nttxss'}	0.83276	-0.0028834	0.033629	0.20114	0.35074	-0.16917
{'fracByP0_01' }	0.00020128	0.0049499	0	0	0	4.637e-11
{'fracByP10' }	0.043499	0.048256	0	2.4273e-05	0.0003723	0.027577
{'fracByP25' }	0.11831	0.15769	0	0.021111	0.035645	0.083407
{'fracByP50' }	0.2823	0.39967	0	0.20586	0.19481	0.1907
{'fracByP75' }	0.51403	0.70547	1	0.45676	0.46999	0.31344
{'fracByP90' }	0.74214	0.87685	1	0.70715	0.71538	0.39736

{'fracByP99_99' }	0.99917	1	1	1	0.99915	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1 and kids =1
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =1, ybin =0 to 20
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	15.81	24.465	0.19909	12.507	11.403	0.32819
{'unweighted_sum' }	65717	1909	1	2195	2.9279e+05	923.73
{'sd' }	3.884	9.3751	0.39931	38.802	34.186	0.13792
{'coefofvar' }	0.24567	0.38321	2.0057	3.1024	2.998	0.42023
{'gini' }	0.11852	0.16247	0.76315	0.85562	0.82278	0.20591
{'min' }	2.4223	19	0	0	0	0.043235
{'max' }	19.997	64	1	398.19	378.55	0.97471
{'pYis0' }	0	0	0.80091	0.32068	0.15745	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.19909	0.67932	0.84255	1
{'pYisMINY' }	0.00031503	0.27613	0.80091	0.32068	0.15745	0
{'pYisMAXY' }	2.3476e-06	0.0032992	0.19909	0.00022204	0	0.00010831
{'p0_01' }	2.4223	19	0	0	0	0.0495
{'p10' }	10.81	19	0	0	0	0.14967
{'p25' }	12.682	19	0	0	1.3409	0.25847
{'p50' }	16.543	20	0	1.3439	2.0191	0.34421
{'p75' }	19.42	25	0	6.2217	4.5942	0.35535
{'p90' }	19.946	33	1	10.751	10.751	0.54426
{'p99_99' }	19.991	64	1	398.19	362.82	0.97471
{'fl_cov_y_all' }	15.086	-0.27856	-0.3318	10.489	11.954	-0.096754
{'fl_cor_y_all' }	1	-0.0076501	-0.21393	0.069595	0.090028	-0.18062
{'fl_cov_age_ss' }	-0.27856	87.892	-0.016337	108.22	83.894	-0.30311
{'fl_cor_age_ss' }	-0.0076501	1	-0.004364	0.29748	0.26176	-0.23443
{'fl_cov_educ_ss' }	-0.3318	-0.016337	0.15945	-0.0059277	-0.124	0.00024207
{'fl_cor_educ_ss' }	-0.21393	-0.004364	1	-0.00038257	-0.0090838	0.0043956
{'fl_cov_a_ss' }	10.489	108.22	-0.0059277	1505.6	1321.1	-2.6607
{'fl_cor_a_ss' }	0.069595	0.29748	-0.00038257	1	0.99593	-0.4972
{'fl_cov_ap_ss' }	11.954	83.894	-0.124	1321.1	1168.7	-2.3404
{'fl_cor_ap_ss' }	0.090028	0.26176	-0.0090838	0.99593	1	-0.49638
{'fl_cov_MPC' }	-0.096754	-0.30311	0.00024207	-2.6607	-2.3404	0.019021
{'fl_cor_MPC' }	-0.18062	-0.23443	0.0043956	-0.4972	-0.49638	1
{'fl_cov_Mass' }	0.00037764	-0.00062294	-2.2324e-05	-0.0014835	-0.0012091	3.6611e-06
{'fl_cor_Mass' }	0.5966	-0.40772	-0.34304	-0.23459	-0.21702	0.16289
{'fl_cov_c_ss' }	13.943	26.703	-0.14484	183.44	157.65	-0.46349
{'fl_cor_c_ss' }	0.57074	0.45285	-0.057668	0.75163	0.73316	-0.5343
{'fl_cov_y_head_inc' }	10.943	-4.1341	-0.34581	24.336	18.601	-0.0071383
{'fl_cor_y_head_inc' }	0.69095	-0.10814	-0.21238	0.15381	0.13344	-0.012693
{'fl_cov_y_spouse' }	7.6898	7.1566	0.026003	-25.703	-12.338	-0.16634
{'fl_cor_y_spouse' }	0.34025	0.13119	0.011191	-0.11384	-0.062026	-0.20728
{'fl_cov_yshr_nttxss'}	0.055732	0.0035145	-0.00087852	-0.00058806	0.022488	-0.00049953
{'fl_cor_yshr_nttxss'}	0.87213	0.022785	-0.13372	-0.00092112	0.039981	-0.22014
{'fracByP0_01' }	4.8265e-05	0.21445	0	0	0	1.5101e-06
{'fracByP10' }	0.065895	0.21445	0	0	0	0.02807
{'fracByP25' }	0.16685	0.21445	0	0	0.022766	0.12418
{'fracByP50' }	0.39727	0.39811	0	0.024794	0.056114	0.45165
{'fracByP75' }	0.78363	0.64861	0	0.14084	0.11234	0.68295
{'fracByP90' }	0.99821	0.8042	1	0.16589	0.19559	0.8134
{'fracByP99_99' }	0.99988	1	1	1	0.99696	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =1, ybin =20 to 40
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC

{'mean' }	30.57	33.919	0.26781	67.633	62.401	0.24549
{'unweighted_sum' }	1.8965e+05	1909	1	6132.2	1.326e+06	788.83
{'sd' }	6.3269	13.075	0.44282	111.13	103.11	0.16283
{'coefofvar' }	0.20696	0.38547	1.6535	1.6431	1.6524	0.66328
{'gini' }	0.11669	0.2156	0.66687	0.73563	0.74174	0.35078
{'min' }	20.001	19	0	0	0	0.036788
{'max' }	39.992	64	1	874.82	851.38	0.93316
{'pYis0' }	0	0	0.73219	0.14159	0.054046	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.26781	0.85841	0.94595	1
{'pYisMINY' }	1.1261e-05	0.10099	0.73219	0.14159	0.054046	0
{'pYisMAXY' }	0.00011459	0.0060085	0.26781	1.1017e-05	0	0.0017247
{'p0_01' }	20.01	19	0	0	0	0.042423
{'p10' }	21.486	19	0	0	0.7632	0.061708
{'p25' }	24.449	23	0	1.3439	2.585	0.079903
{'p50' }	31.654	29	0	6.2217	6.2217	0.23828
{'p75' }	36.039	45	1	109.35	97.621	0.34931
{'p90' }	39.254	54	1	244.54	226.31	0.41344
{'p99_99' }	39.992	64	1	688.07	653.34	0.93316
{'fl_cov_y_all' }	40.03	17.984	-0.54452	147.96	139.41	-0.090306
{'fl_cor_y_all' }	1	0.2174	-0.19436	0.21043	0.2137	-0.087659
{'fl_cov_age_ss' }	17.984	170.95	-1.3056	368.98	338.19	-0.90807
{'fl_cor_age_ss' }	0.2174	1	-0.2255	0.25395	0.25085	-0.42654
{'fl_cov_educ_ss' }	-0.54452	-1.3056	0.19609	-1.8973	-1.9193	0.0095919
{'fl_cor_educ_ss' }	-0.19436	-0.2255	1	-0.038555	-0.042037	0.13303
{'fl_cov_a_ss' }	147.96	368.98	-1.8973	12350	11449	-11.639
{'fl_cor_a_ss' }	0.21043	0.25395	-0.038555	1	0.99916	-0.64322
{'fl_cov_ap_ss' }	139.41	338.19	-1.9193	11449	10632	-10.685
{'fl_cor_ap_ss' }	0.2137	0.25085	-0.042037	0.99916	1	-0.6364
{'fl_cov_MPC' }	-0.090306	-0.90807	0.0095919	-11.639	-10.685	0.026513
{'fl_cor_MPC' }	-0.087659	-0.42654	0.13303	-0.64322	-0.6364	1
{'fl_cov_Mass' }	0.00030363	-0.00096758	-8.5677e-06	-0.0047883	-0.0043647	9.9922e-06
{'fl_cor_Mass' }	0.28071	-0.43287	-0.11317	-0.25204	-0.2476	0.35895
{'fl_cov_c_ss' }	43.981	58.731	-0.40946	1000.3	916.53	-1.1803
{'fl_cor_c_ss' }	0.62738	0.4054	-0.083453	0.8124	0.80223	-0.6542
{'fl_cov_y_head_inc' }	34.34	-2.4213	-0.54065	173.43	155.44	0.13887
{'fl_cor_y_head_inc' }	0.80598	-0.0275	-0.18131	0.23175	0.22387	0.12665
{'fl_cov_y_spouse' }	10.561	37.876	-0.0071842	-47.294	-29.766	-0.4254
{'fl_cor_y_spouse' }	0.22006	0.38192	-0.0021389	-0.056106	-0.038058	-0.34443
{'fl_cov_yshr_nttxss'}	0.061994	0.047409	-0.00072522	0.17981	0.17972	-0.00039296
{'fl_cor_yshr_nttxss'}	0.89219	0.33016	-0.14912	0.14733	0.15871	-0.21975
{'fracByP0_01' }	8.617e-05	0.056569	0	0	0	1.7269e-05
{'fracByP10' }	0.074161	0.056569	0	0	0.00092137	0.022618
{'fracByP25' }	0.17944	0.1822	0	0.0021005	0.0043123	0.06518
{'fracByP50' }	0.40931	0.33916	0	0.022258	0.020963	0.2369
{'fracByP75' }	0.68807	0.62643	1	0.16646	0.13069	0.55689
{'fracByP90' }	0.8704	0.83277	1	0.59147	0.49926	0.82459
{'fracByP99_99' }	1	1	1	0.99892	0.99882	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =1, ybin =40 to 60
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	48.291	34.323	0.38012	155.46	146.33	0.2991
{'unweighted_sum' }	2.3893e+05	1909	1	10762	2.2392e+06	434
{'sd' }	5.8082	13.306	0.48542	202.02	192.56	0.2833
{'coefofvar' }	0.12027	0.38767	1.277	1.2995	1.3159	0.94717
{'gini' }	0.068978	0.21561	0.50271	0.65061	0.67234	0.49335
{'min' }	40.002	19	0	0	0	0.031422
{'max' }	60	64	1	1343.9	1318	0.93316
{'pYis0' }	0	0	0.61988	0.14185	0.10474	0
{'pYls0' }	0	0	0	0	0	0

{'pYgr0' }	1	1	0.38012	0.85815	0.89526	1
{'pYisMINY' }	1.2879e-07	0.025313	0.61988	0.14185	0.10474	7.215e-06
{'pYisMAXY' }	1.5427e-07	0.0063585	0.38012	3.7399e-06	0	0.018686
{'p0_01' }	40.003	19	0	0	0	0.038663
{'p10' }	40.788	20	0	0	0	0.049959
{'p25' }	42.653	23	0	0.39819	0.53591	0.058259
{'p50' }	48.07	30	0	10.751	10.751	0.20434
{'p75' }	53.251	46	1	290.28	271.93	0.51191
{'p90' }	57.022	55	1	460.95	441.87	0.85677
{'p99_99' }	59.992	64	1	1092.6	1044.7	0.93316
{'fl_cov_y_all' }	33.735	19.138	0.043511	371.85	351.07	-0.42991
{'fl_cor_y_all' }	1	0.24763	0.015433	0.31691	0.3139	-0.26127
{'fl_cov_age_ss' }	19.138	177.05	-0.093187	1534.9	1473	-2.3715
{'fl_cor_age_ss' }	0.24763	1	-0.014427	0.57102	0.57488	-0.62912
{'fl_cov_educ_ss' }	0.043511	-0.093187	0.23563	-15.561	-14.945	0.039685
{'fl_cor_educ_ss' }	0.015433	-0.014427	1	-0.15868	-0.15989	0.28858
{'fl_cov_a_ss' }	371.85	1534.9	-15.561	40812	38884	-37.457
{'fl_cor_a_ss' }	0.31691	0.57102	-0.15868	1	0.99957	-0.65447
{'fl_cov_ap_ss' }	351.07	1473	-14.945	38884	37079	-35.287
{'fl_cor_ap_ss' }	0.3139	0.57488	-0.15989	0.99957	1	-0.64686
{'fl_cov_MPC' }	-0.42991	-2.3715	0.039685	-37.457	-35.287	0.080258
{'fl_cor_MPC' }	-0.26127	-0.62912	0.28858	-0.65447	-0.64686	1
{'fl_cov_Mass' }	-0.00019971	-0.00067275	4.4386e-06	-0.008202	-0.0077143	1.6295e-05
{'fl_cor_Mass' }	-0.42068	-0.61857	0.11187	-0.49672	-0.49014	0.70373
{'fl_cov_c_ss' }	50.852	90.949	-0.17607	2294.9	2158.2	-2.7142
{'fl_cor_c_ss' }	0.64414	0.50288	-0.026687	0.83579	0.82462	-0.70488
{'fl_cov_y_head_inc' }	27.667	-2.2399	-0.57058	251.42	227.51	-0.10908
{'fl_cor_y_head_inc' }	0.76071	-0.026884	-0.18772	0.19875	0.18868	-0.061488
{'fl_cov_y_spouse' }	11.264	39.681	1.1399	223.54	229.36	-0.59554
{'fl_cor_y_spouse' }	0.24897	0.38284	0.30146	0.14205	0.15291	-0.26986
{'fl_cov_yshr_nttxss'}	0.031222	0.03127	0.00045202	0.3862	0.37151	-0.0005799
{'fl_cor_yshr_nttxss'}	0.87585	0.3829	0.15172	0.31148	0.31435	-0.33351
{'fracByP0_01' }	0.00018144	0.014012	0	0	0	1.2241e-05
{'fracByP10' }	0.091149	0.0611	0	0	0	0.015664
{'fracByP25' }	0.22374	0.18603	0	0.00034192	0.00026383	0.042768
{'fracByP50' }	0.44873	0.35384	0	0.0048011	0.0051176	0.11075
{'fracByP75' }	0.70864	0.62289	1	0.33084	0.25834	0.41426
{'fracByP90' }	0.87925	0.83878	1	0.66621	0.6149	0.6942
{'fracByP99_99' }	1	1	1	0.99958	0.99924	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =1, ybin =60 to 80
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	69.38	43.199	0.26979	248.1	237.53	0.15011
{'unweighted_sum' }	2.8486e+05	1909	1	15665	2.9363e+06	288.27
{'sd' }	5.2256	10.654	0.44385	283.61	272.96	0.17019
{'coefofvar' }	0.075318	0.24663	1.6452	1.1431	1.1492	1.1338
{'gini' }	0.043008	0.13882	0.66401	0.58255	0.60159	0.5055
{'min' }	60.01	19	0	0	0	0.0084176
{'max' }	79.999	64	1	1788.7	1767.5	0.91956
{'pYis0' }	0	0	0.73021	0.07261	0.049065	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.26979	0.92739	0.95094	1
{'pYisMINY' }	3.4195e-08	0	0.73021	0.07261	0.049065	5.1556e-09
{'pYisMAXY' }	2.3533e-05	0.010305	0.26979	8.9912e-07	0	0.00057601
{'p0_01' }	60.015	21	0	0	0	0.014978
{'p10' }	62.216	28	0	0.39819	1.807	0.044694
{'p25' }	65.516	34	0	6.2217	6.583	0.049255
{'p50' }	68.941	43	0	167.99	147.57	0.061277
{'p75' }	73.379	52	1	398.19	375.96	0.2144
{'p90' }	77.282	58	1	688.07	664.56	0.35828
{'p99_99' }	79.987	64	1	1482.8	1434	0.91956

{'fl_cov_y_all' }	27.307	10.784	-0.07914	253.79	249.5	-0.24075
{'fl_cor_y_all' }	1	0.19369	-0.034121	0.17124	0.17491	-0.27071
{'fl_cov_age_ss' }	10.784	113.51	-1.1964	687.24	715.41	-0.71423
{'fl_cor_age_ss' }	0.19369	1	-0.25301	0.22744	0.246	-0.3939
{'fl_cov_educ_ss' }	-0.07914	-1.1964	0.19701	24.69	22.794	0.016143
{'fl_cor_educ_ss' }	-0.034121	-0.25301	1	0.19614	0.18813	0.21371
{'fl_cov_a_ss' }	253.79	687.24	24.69	80433	77381	-23.982
{'fl_cor_a_ss' }	0.17124	0.22744	0.19614	1	0.99956	-0.49687
{'fl_cov_ap_ss' }	249.5	715.41	22.794	77381	74509	-22.964
{'fl_cor_ap_ss' }	0.17491	0.246	0.18813	0.99956	1	-0.49432
{'fl_cov_MPC' }	-0.24075	-0.71423	0.016143	-23.982	-22.964	0.028964
{'fl_cor_MPC' }	-0.27071	-0.3939	0.21371	-0.49687	-0.49432	1
{'fl_cov_Mass' }	-2.1285e-05	-8.2109e-05	2.3556e-06	-0.0020493	-0.0019569	2.803e-06
{'fl_cor_Mass' }	-0.19285	-0.36487	0.25127	-0.34211	-0.33942	0.77976
{'fl_cov_c_ss' }	25.783	-22.241	1.8891	3119.6	2946.8	-1.1572
{'fl_cor_c_ss' }	0.3603	-0.15244	0.3108	0.80324	0.78834	-0.49653
{'fl_cov_y_head_inc' }	26.291	14.31	-0.16148	446.96	424.81	-0.30901
{'fl_cor_y_head_inc' }	0.79581	0.21244	-0.057547	0.24928	0.24616	-0.28719
{'fl_cov_y_spouse' }	1.8849	-6.5448	0.15285	-358.56	-325.42	0.12669
{'fl_cor_y_spouse' }	0.050694	-0.086334	0.048397	-0.17768	-0.16755	0.10462
{'fl_cov_yshr_nttxss'}	0.014263	0.0040994	-1.2149e-05	0.029914	0.036699	-8.8101e-05
{'fl_cor_yshr_nttxss'}	0.83211	0.1173	-0.0083446	0.032156	0.040988	-0.15782
{'fracByP0_01' }	0.0002702	7.7752e-05	0	0	0	2.6038e-05
{'fracByP10' }	0.088168	0.063807	0	3.7135e-05	0.00019848	0.028105
{'fracByP25' }	0.22652	0.17073	0	0.002581	0.0028359	0.075138
{'fracByP50' }	0.47062	0.40222	0	0.082188	0.061103	0.16534
{'fracByP75' }	0.72414	0.69553	1	0.37777	0.3267	0.33657
{'fracByP90' }	0.88683	0.87874	1	0.68708	0.64585	0.63151
{'fracByP99_99' }	0.99997	1	1	0.99972	0.99941	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =1, ybin =80 to 100
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	90.03	39.054	0.41836	299.12	290.97	0.28851
{'unweighted_sum' }	3.2476e+05	1909	1	22077	3.6445e+06	287
{'sd' }	5.3251	14.226	0.49329	339.45	329.47	0.3371
{'coefofvar' }	0.059149	0.36428	1.1791	1.1349	1.1323	1.1684
{'gini' }	0.033667	0.20716	0.4471	0.58792	0.60795	0.5665
{'min' }	80.004	19	0	0	0	0.031838
{'max' }	99.998	64	1	2322.2	2298.9	0.98771
{'pYis0' }	0	0	0.58164	0.18183	0.13245	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.41836	0.81817	0.86755	1
{'pYisMINY' }	0	0.079914	0.58164	0.18183	0.13245	0.00071689
{'pYisMAXY' }	0.0013383	0.0095099	0.41836	1.1056e-07	0	6.1244e-07
{'p0_01' }	80.013	19	0	0	0	0.031838
{'p10' }	82.321	20	0	0	0	0.044806
{'p25' }	86.315	22	0	1.3439	1.2806	0.049041
{'p50' }	89.845	41	0	203.87	176.37	0.062316
{'p75' }	94.138	51	1	529.99	514.67	0.46493
{'p90' }	97.265	57	1	777.71	755.61	0.933
{'p99_99' }	99.998	64	1	1788.7	1741	0.9702
{'fl_cov_y_all' }	28.357	-2.856	0.64678	-119.5	-113.09	0.27749
{'fl_cor_y_all' }	1	-0.037699	0.24622	-0.066106	-0.064456	0.15458
{'fl_cov_age_ss' }	-2.856	202.39	-0.14238	2812.1	2780.2	-3.7255
{'fl_cor_age_ss' }	-0.037699	1	-0.020289	0.5823	0.59314	-0.77684
{'fl_cov_educ_ss' }	0.64678	-0.14238	0.24334	-44.183	-43.491	0.0031759
{'fl_cor_educ_ss' }	0.24622	-0.020289	1	-0.26386	-0.2676	0.019099
{'fl_cov_a_ss' }	-119.5	2812.1	-44.183	1.1523e+05	1.1181e+05	-70.82
{'fl_cor_a_ss' }	-0.066106	0.5823	-0.26386	1	0.99971	-0.6189
{'fl_cov_ap_ss' }	-113.09	2780.2	-43.491	1.1181e+05	1.0855e+05	-68.846
{'fl_cor_ap_ss' }	-0.064456	0.59314	-0.2676	0.99971	1	-0.61989

{'fl_cov_MPC' }	0.27749	-3.7255	0.0031759	-70.82	-68.846	0.11363
{'fl_cor_MPC' }	0.15458	-0.77684	0.019099	-0.6189	-0.61989	1
{'fl_cov_Mass' }	1.7877e-05	-0.00087162	-1.1772e-05	-0.013951	-0.013533	1.7199e-05
{'fl_cor_Mass' }	0.033802	-0.61689	-0.24028	-0.41382	-0.41359	0.51372
{'fl_cov_c_ss' }	17.363	51.481	0.39384	3439.4	3281.5	-2.3479
{'fl_cor_c_ss' }	0.24202	0.2686	0.059261	0.75206	0.73929	-0.51699
{'fl_cov_y_head_inc' }	24.841	-36.337	-0.2727	-284.43	-282.14	1.1789
{'fl_cor_y_head_inc' }	0.66992	-0.36681	-0.07939	-0.12033	-0.12298	0.50224
{'fl_cov_y_spouse' }	6.5265	62.147	1.7067	306.15	313.8	-1.6732
{'fl_cor_y_spouse' }	0.12669	0.45157	0.35765	0.093228	0.098456	-0.51308
{'fl_cov_yshr_nttxss'}	0.011557	0.0094826	0.00051272	0.014402	0.018122	-0.00018259
{'fl_cor_yshr_nttxss'}	0.78889	0.24229	0.37782	0.015422	0.019994	-0.19689
{'fracByP0_01' }	0.00036047	0.038879	0	0	0	7.9109e-05
{'fracByP10' }	0.090963	0.075817	0	0	0	0.014636
{'fracByP25' }	0.23038	0.13789	0	0.00043351	0.00039551	0.039077
{'fracByP50' }	0.47576	0.35031	0	0.035705	0.029005	0.086023
{'fracByP75' }	0.73099	0.65104	1	0.41656	0.3522	0.32207
{'fracByP90' }	0.90601	0.84945	1	0.74044	0.66732	0.72033
{'fracByP99_99' }	1	1	1	0.99954	0.99936	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =1, ybin =100 to 2113.2092
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	241.59	42.697	0.45014	591.36	666	0.162
{'unweighted_sum' }	4.1879e+07	1909	1	1.0976e+05	2.1761e+08	3919.4
{'sd' }	165.05	12.351	0.49751	701.74	716.82	0.27494
{'coefofvar' }	0.68319	0.28928	1.1052	1.1867	1.0763	1.6971
{'gini' }	0.32345	0.16185	0.40179	0.56667	0.52775	0.62066
{'min' }	100	19	0	0	0	2.9531e-06
{'max' }	2112.7	64	1	7837.6	9259.3	0.97989
{'pYis0' }	0	0	0.54986	0.14802	0.11235	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.45014	0.85198	0.88765	1
{'pYisMINY' }	2.4321e-07	0.014812	0.54986	0.14802	0.11235	3.4986e-06
{'pYisMAXY' }	1.9339e-07	0.012097	0.45014	0.00096157	1.9339e-07	0.00085021
{'p0_01' }	100.11	19	0	0	0	3.1244e-06
{'p10' }	110.99	24	0	0	0	0.040168
{'p25' }	133.79	32	0	25.484	161.03	0.044986
{'p50' }	181.36	44	0	398.19	509.61	0.051894
{'p75' }	292.12	53	1	874.82	962.79	0.063837
{'p90' }	458.6	58	1	1482.8	1480.8	0.8702
{'p99_99' }	1927.1	64	1	7837.6	8337.5	0.97989
{'fl_cov_y_all' }	27243	176.04	5.7851	39469	59753	-8.0375
{'fl_cor_y_all' }	1	0.086355	0.070451	0.34076	0.50504	-0.17712
{'fl_cov_age_ss' }	176.04	152.55	0.28622	4646	4681.2	-1.7339
{'fl_cor_age_ss' }	0.086355	1	0.046579	0.53603	0.52873	-0.5106
{'fl_cov_educ_ss' }	5.7851	0.28622	0.24751	46.804	45.203	-0.0020675
{'fl_cor_educ_ss' }	0.070451	0.046579	1	0.13406	0.12675	-0.015115
{'fl_cov_a_ss' }	39469	4646	46.804	4.9244e+05	4.8899e+05	-66.614
{'fl_cor_a_ss' }	0.34076	0.53603	0.13406	1	0.97211	-0.34527
{'fl_cov_ap_ss' }	59753	4681.2	45.203	4.8899e+05	5.1383e+05	-75.109
{'fl_cor_ap_ss' }	0.50504	0.52873	0.12675	0.97211	1	-0.38111
{'fl_cov_MPC' }	-8.0375	-1.7339	-0.0020675	-66.614	-75.109	0.07559
{'fl_cor_MPC' }	-0.17712	-0.5106	-0.015115	-0.34527	-0.38111	1
{'fl_cov_Mass' }	-0.001047	-0.00012296	-8.7197e-07	-0.0048048	-0.005536	5.0539e-06
{'fl_cor_Mass' }	-0.26512	-0.41609	-0.073255	-0.28618	-0.3228	0.7683
{'fl_cov_c_ss' }	8333.1	48.987	5.7911	26430	26557	-1.6704
{'fl_cor_c_ss' }	0.67797	0.053259	0.15631	0.50577	0.49751	-0.081588
{'fl_cov_y_head_inc' }	14165	249.61	5.9591	49510	48897	-1.4925
{'fl_cor_y_head_inc' }	0.65269	0.15369	0.091093	0.53656	0.51878	-0.041285
{'fl_cov_y_spouse' }	24274	-136.55	-0.32296	-18639	20151	-12.149
{'fl_cor_y_spouse' }	0.62246	-0.046792	-0.0027476	-0.11242	0.11898	-0.18702

{'fl_cov_yshr_nttxss'}	1.7422	0.0054594	0.00014606	1.3524	2.9255	-0.00080158
{'fl_cor_yshr_nttxss'}	0.8433	0.035315	0.023456	0.15397	0.32607	-0.23293
{'fracByP0_01' }	0.00023643	0.0065915	0	0	0	2.2358e-09
{'fracByP10' }	0.043601	0.051309	0	0	0	0.021524
{'fracByP25' }	0.11915	0.15163	0	0.0012888	0.01047	0.061087
{'fracByP50' }	0.28042	0.38463	0	0.097665	0.13536	0.13578
{'fracByP75' }	0.51215	0.68666	1	0.37746	0.40407	0.22339
{'fracByP90' }	0.74254	0.8571	1	0.69716	0.67054	0.43318
{'fracByP99_99' }	0.99917	1	1	1	0.9987	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1 and kids =2
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =2, ybin =0 to 20
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	15.761	25.497	0.15967	16.45	14.333	0.31154
{'unweighted_sum' }	65717	1909	1	2195	2.9186e+05	997.24
{'sd' }	3.7311	8.1002	0.3663	43.171	37.873	0.15539
{'coefofvar' }	0.23672	0.31769	2.2941	2.6244	2.6423	0.49878
{'gini' }	0.12508	0.14945	0.81558	0.8308	0.84232	0.2614
{'min' }	2.4223	19	0	0	0	0.045606
{'max' }	19.997	64	1	398.19	377.69	0.9744
{'pYis0' }	0	0	0.84033	0.19686	0.17673	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.15967	0.80314	0.82327	1
{'pYisMINY' }	0.00018058	0.14504	0.84033	0.19686	0.17673	1.4036e-11
{'pYisMAXY' }	3.1061e-07	0.0013057	0.15967	0.00020612	0	3.3651e-06
{'p0_01' }	2.4223	19	0	0	0	0.052671
{'p10' }	10.81	19	0	0	0	0.10825
{'p25' }	13.147	20	0	0.39819	0.50679	0.20148
{'p50' }	16.422	23	0	3.1855	2.0565	0.32817
{'p75' }	19.42	28	0	6.2217	4.7761	0.3766
{'p90' }	19.909	34	1	49.774	43.556	0.4702
{'p99_99' }	19.996	64	1	398.19	362.96	0.93702
{'fl_cov_y_all' }	13.921	-0.38631	-0.089511	15.314	15.873	-0.060708
{'fl_cor_y_all' }	1	-0.012782	-0.065494	0.095075	0.11233	-0.10471
{'fl_cov_age_ss' }	-0.38631	65.613	0.14813	90.398	70.253	-0.15948
{'fl_cor_age_ss' }	-0.012782	1	0.049924	0.25851	0.22901	-0.1267
{'fl_cov_educ_ss' }	-0.089511	0.14813	0.13418	0.10811	-0.031638	0.00067686
{'fl_cor_educ_ss' }	-0.065494	0.049924	1	0.0068367	-0.0022806	0.011892
{'fl_cov_a_ss' }	15.314	90.398	0.10811	1863.8	1629.6	-3.2672
{'fl_cor_a_ss' }	0.095075	0.25851	0.0068367	1	0.99669	-0.48704
{'fl_cov_ap_ss' }	15.873	70.253	-0.031638	1629.6	1434.3	-2.8871
{'fl_cor_ap_ss' }	0.11233	0.22901	-0.0022806	0.99669	1	-0.4906
{'fl_cov_MPC' }	-0.060708	-0.15948	0.00067686	-3.2672	-2.8871	0.024146
{'fl_cor_MPC' }	-0.10471	-0.1267	0.011892	-0.48704	-0.4906	1
{'fl_cov_Mass' }	0.00016365	-0.00033928	-8.8323e-06	-0.00097024	-0.00081418	2.7663e-06
{'fl_cor_Mass' }	0.46612	-0.44512	-0.25624	-0.23883	-0.22846	0.18918
{'fl_cov_c_ss' }	13.303	21.145	0.091713	236.97	202.96	-0.48213
{'fl_cor_c_ss' }	0.52657	0.38551	0.036977	0.81066	0.79146	-0.45822
{'fl_cov_y_head_inc' }	9.4844	-3.0774	-0.14051	34.64	26.659	0.036071
{'fl_cor_y_head_inc' }	0.60925	-0.091055	-0.091934	0.19231	0.16871	0.055637
{'fl_cov_y_spouse' }	7.2003	4.3674	0.082766	-31.365	-17.504	-0.15707
{'fl_cor_y_spouse' }	0.33821	0.094494	0.039599	-0.12733	-0.081	-0.17715
{'fl_cov_yshr_nttxss'}	0.052944	0.00064869	-0.00018514	0.015486	0.033738	-0.00046232
{'fl_cor_yshr_nttxss'}	0.89988	0.0050785	-0.032052	0.022748	0.056492	-0.18868
{'fracByP0_01' }	2.7753e-05	0.10809	0	0	0	1.6959e-05
{'fracByP10' }	0.057415	0.10809	0	0	0	0.025854
{'fracByP25' }	0.17407	0.25056	0	0.0019892	0.0040044	0.10462
{'fracByP50' }	0.40782	0.42818	0	0.065748	0.023503	0.36182
{'fracByP75' }	0.78575	0.67496	0	0.11493	0.080143	0.60663

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'fracByP90' }	0.91943	0.84386	1	0.18533	0.18249	0.80673
{'fracByP99_99' }	0.99997	1	1	1	0.99754	0.99982

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =2, ybin =20 to 40
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	30.478	33.29	0.22574	66.773	60.354	0.24683
{'unweighted_sum' }	1.8965e+05	1909	1	6132.2	1.317e+06	851.92
{'sd' }	5.9512	10.746	0.41807	104.21	95.812	0.16954
{'coefofvar' }	0.19526	0.32281	1.852	1.5606	1.5875	0.68685
{'gini' }	0.11182	0.17849	0.72644	0.7151	0.72855	0.35605
{'min' }	20.001	19	0	0	0	0.037587
{'max' }	39.992	64	1	874.82	849.48	0.93321
{'pYis0' }	0	0	0.77426	0.090964	0.047343	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.22574	0.90904	0.95266	1
{'pYisMINY' }	1.1548e-05	0.039802	0.77426	0.090964	0.047343	0
{'pYisMAXY' }	4.2152e-05	0.0019765	0.22574	5.14e-06	0	0.001099
{'p0_01' }	20.01	19	0	0	0	0.044921
{'p10' }	21.746	22	0	0.39819	0.49838	0.066098
{'p25' }	25.334	25	0	1.3439	1.5144	0.088171
{'p50' }	31.086	30	0	6.2217	6.2217	0.24268
{'p75' }	35.695	41	0	109.35	96.096	0.3463
{'p90' }	38.222	50	1	203.87	189.33	0.40318
{'p99_99' }	39.976	64	1	688.07	645.32	0.93321
{'fl_cov_y_all' }	35.417	16.419	-0.058063	142.01	131.22	-0.071049
{'fl_cor_y_all' }	1	0.25673	-0.023337	0.22899	0.23013	-0.070418
{'fl_cov_age_ss' }	16.419	115.48	-0.59735	193.29	174.38	-0.48825
{'fl_cor_age_ss' }	0.25673	1	-0.13296	0.17261	0.16936	-0.26799
{'fl_cov_educ_ss' }	-0.058063	-0.59735	0.17478	-0.036488	-0.19302	0.0048211
{'fl_cor_educ_ss' }	-0.023337	-0.13296	1	-0.00083754	-0.0048189	0.068019
{'fl_cov_a_ss' }	142.01	193.29	-0.036488	10859	9974.3	-11.178
{'fl_cor_a_ss' }	0.22899	0.17261	-0.00083754	1	0.99902	-0.63269
{'fl_cov_ap_ss' }	131.22	174.38	-0.19302	9974.3	9179.9	-10.106
{'fl_cor_ap_ss' }	0.23013	0.16936	-0.0048189	0.99902	1	-0.62213
{'fl_cov_MPC' }	-0.071049	-0.48825	0.0048211	-11.178	-10.106	0.028743
{'fl_cor_MPC' }	-0.070418	-0.26799	0.068019	-0.63269	-0.62213	1
{'fl_cov_Mass' }	3.6466e-05	-0.00044771	-6.6108e-06	-0.0028415	-0.0025589	2.9237e-06
{'fl_cor_Mass' }	0.065013	-0.44203	-0.16777	-0.28931	-0.28337	0.18297
{'fl_cov_c_ss' }	42.302	39.88	0.16766	977.62	884.12	-1.2061
{'fl_cor_c_ss' }	0.62658	0.32713	0.035351	0.82698	0.81342	-0.62708
{'fl_cov_y_head_inc' }	28.347	0.18605	-0.17197	181.16	160.25	0.087789
{'fl_cor_y_head_inc' }	0.77748	0.002826	-0.067142	0.28377	0.27301	0.084522
{'fl_cov_y_spouse' }	11.475	26.345	0.18486	-63.541	-47.117	-0.25779
{'fl_cor_y_spouse' }	0.29467	0.37465	0.067575	-0.093184	-0.075151	-0.23237
{'fl_cov_yshr_nttxss'}	0.058326	0.037713	5.3836e-05	0.17613	0.17	-0.00023656
{'fl_cor_yshr_nttxss'}	0.93202	0.33374	0.012246	0.16074	0.16874	-0.13269
{'fracByP0_01' }	0.00021419	0.022717	0	0	0	1.8062e-05
{'fracByP10' }	0.068897	0.09175	0	0.00025995	0.00018026	0.023865
{'fracByP25' }	0.18347	0.20019	0	0.0034607	0.0031172	0.070129
{'fracByP50' }	0.41596	0.37543	0	0.021019	0.017214	0.23339
{'fracByP75' }	0.69147	0.65325	0	0.19199	0.15828	0.56336
{'fracByP90' }	0.87112	0.85062	1	0.53665	0.52022	0.76703
{'fracByP99_99' }	0.99994	1	1	0.99939	0.99887	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =2, ybin =40 to 60
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	48.949	33.008	0.32292	133.93	123.57	0.42659

{'unweighted_sum' }	2.3893e+05	1909	1	10762	2.2269e+06	466.09
{'sd' }	5.7423	11.016	0.46759	180.33	170.19	0.38367
{'coefofvar' }	0.11731	0.33373	1.448	1.3465	1.3773	0.8994
{'gini' }	0.06723	0.18351	0.58672	0.67636	0.72178	0.46836
{'min' }	40.002	19	0	0	0	0.005985
{'max' }	60	64	1	1343.9	1315.2	0.93321
{'pYis0' }	0	0	0.67708	0.28828	0.36724	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.32292	0.71172	0.63276	1
{'pYisMINY' }	1.0824e-07	0.0017588	0.67708	0.28828	0.36724	9.2283e-06
{'pYisMAXY' }	5.1917e-08	0.0019648	0.32292	1.4199e-06	0	0.012091
{'p0_01' }	40.003	19	0	0	0	0.041249
{'p10' }	40.985	21	0	0	0	0.053185
{'p25' }	44.126	24	0	0	0	0.063867
{'p50' }	48.628	30	0	10.751	9.6798	0.19953
{'p75' }	53.626	41	1	244.54	222.3	0.89927
{'p90' }	57.645	50	1	398.19	376.04	0.92285
{'p99_99' }	59.992	64	1	1092.6	1029.3	0.93321
{'fl_cov_y_all' }	32.974	9.3975	0.1624	197.3	182.26	-0.42951
{'fl_cor_y_all' }	1	0.14856	0.060483	0.19054	0.1865	-0.19495
{'fl_cov_age_ss' }	9.3975	121.35	0.7984	1010.3	958.65	-2.7205
{'fl_cor_age_ss' }	0.14856	1	0.155	0.50858	0.51136	-0.64369
{'fl_cov_educ_ss' }	0.1624	0.7984	0.21864	-3.3601	-3.3121	-0.020568
{'fl_cor_educ_ss' }	0.060483	0.155	1	-0.039849	-0.041622	-0.11464
{'fl_cov_a_ss' }	197.3	1010.3	-3.3601	32518	30671	-48.714
{'fl_cor_a_ss' }	0.19054	0.50858	-0.039849	1	0.9994	-0.70409
{'fl_cov_ap_ss' }	182.26	958.65	-3.3121	30671	28963	-45.066
{'fl_cor_ap_ss' }	0.1865	0.51136	-0.041622	0.9994	1	-0.69017
{'fl_cov_MPC' }	-0.42951	-2.7205	-0.020568	-48.714	-45.066	0.14721
{'fl_cor_MPC' }	-0.19495	-0.64369	-0.11464	-0.70409	-0.69017	1
{'fl_cov_Mass' }	-9.8747e-05	-0.00079733	-1.6463e-05	-0.012133	-0.011206	4.0927e-05
{'fl_cor_Mass' }	-0.13013	-0.54774	-0.26644	-0.50917	-0.49829	0.80723
{'fl_cov_c_ss' }	42.969	68.338	0.47726	2055.7	1904.9	-4.2516
{'fl_cor_c_ss' }	0.54305	0.45022	0.074073	0.82731	0.81232	-0.8042
{'fl_cov_y_head_inc' }	27.963	-10.143	-0.66599	82.051	66.115	0.1302
{'fl_cor_y_head_inc' }	0.75256	-0.14229	-0.22011	0.070318	0.060038	0.052445
{'fl_cov_y_spouse' }	8.1332	31.713	1.3444	187.05	188.5	-0.90838
{'fl_cor_y_spouse' }	0.20064	0.40782	0.40731	0.14694	0.1569	-0.3354
{'fl_cov_yshr_nttxss'}	0.030346	0.019067	0.00058199	0.22978	0.21741	-0.00068095
{'fl_cor_yshr_nttxss'}	0.91137	0.29851	0.21465	0.21976	0.22031	-0.30608
{'fracByP0_01' }	0.00013429	0.0010124	0	0	0	8.7989e-06
{'fracByP10' }	0.082902	0.064613	0	0	0	0.011636
{'fracByP25' }	0.21311	0.19115	0	0	0	0.03199
{'fracByP50' }	0.45012	0.39186	0	0.0040552	0.003014	0.090652
{'fracByP75' }	0.7122	0.64091	1	0.3119	0.23738	0.48227
{'fracByP90' }	0.88105	0.83826	1	0.63985	0.58932	0.82958
{'fracByP99_99' }	1	1	1	0.99982	0.99914	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =2, ybin =60 to 80
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	69.01	39.922	0.27221	194.84	181.9	0.21647
{'unweighted_sum' }	2.8486e+05	1909	1	15665	2.9219e+06	310.36
{'sd' }	5.2566	9.3279	0.4451	239.5	228.76	0.24703
{'coefofvar' }	0.076172	0.23366	1.6351	1.2292	1.2576	1.1412
{'gini' }	0.043476	0.13063	0.66054	0.61302	0.63886	0.5335
{'min' }	60.01	19	0	0	0	0.011633
{'max' }	79.999	64	1	1788.7	1763	0.94257
{'pYis0' }	0	0	0.72779	0.14586	0.1081	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.27221	0.85414	0.8919	1
{'pYisMINY' }	8.9982e-09	0	0.72779	0.14586	0.1081	5.5547e-07

{'pYisMAXY' }	3.0591e-05	0.0030386	0.27221	2.538e-07	0	0.00053209
{'p0_01' }	60.015	22	0	0	0	0.037847
{'p10' }	61.788	28	0	0	0	0.047672
{'p25' }	64.977	33	0	1.3439	1.3439	0.052646
{'p50' }	68.591	39	0	109.35	93.061	0.080395
{'p75' }	72.983	47	1	290.28	272.3	0.31998
{'p90' }	77.074	53	1	529.99	504.27	0.49844
{'p99_99' }	79.987	64	1	1343.9	1304.3	0.94257
{'fl_cov_y_all' }	27.632	10.242	0.04172	258.67	247.79	-0.27364
{'fl_cor_y_all' }	1	0.20887	0.017831	0.20546	0.20605	-0.21073
{'fl_cov_age_ss' }	10.242	87.01	-1.1241	408.61	428.4	-0.85091
{'fl_cor_age_ss' }	0.20887	1	-0.27074	0.1829	0.20076	-0.36928
{'fl_cov_educ_ss' }	0.04172	-1.1241	0.19811	19.401	18.03	0.03558
{'fl_cor_educ_ss' }	0.017831	-0.27074	1	0.182	0.17707	0.32359
{'fl_cov_a_ss' }	258.67	408.61	19.401	57360	54759	-30.992
{'fl_cor_a_ss' }	0.20546	0.1829	0.182	1	0.99944	-0.52384
{'fl_cov_ap_ss' }	247.79	428.4	18.03	54759	52333	-29.061
{'fl_cor_ap_ss' }	0.20605	0.20076	0.17707	0.99944	1	-0.51426
{'fl_cov_MPC' }	-0.27364	-0.85091	0.03558	-30.992	-29.061	0.061023
{'fl_cor_MPC' }	-0.21073	-0.36928	0.32359	-0.52384	-0.51426	1
{'fl_cov_Mass' }	-5.647e-05	-0.00019927	6.0048e-06	-0.0045094	-0.00423	1.0215e-05
{'fl_cor_Mass' }	-0.21772	-0.43297	0.27343	-0.3816	-0.37475	0.83804
{'fl_cov_c_ss' }	32.745	-11.567	1.4052	2746	2568.3	-2.108
{'fl_cor_c_ss' }	0.44148	-0.08788	0.22374	0.81257	0.79566	-0.60478
{'fl_cov_y_head_inc' }	26.046	9.429	0.037206	370.37	344.39	-0.33972
{'fl_cor_y_head_inc' }	0.80575	0.16438	0.013593	0.25147	0.24481	-0.22363
{'fl_cov_y_spouse' }	2.5735	1.319	0.0073258	-181.28	-156.79	0.10724
{'fl_cor_y_spouse' }	0.082542	0.023841	0.002775	-0.12762	-0.11556	0.073192
{'fl_cov_yshr_nttxss'}	0.015322	0.0059906	1.6917e-05	0.090978	0.091013	-0.00012266
{'fl_cor_yshr_nttxss'}	0.91023	0.20055	0.011869	0.11862	0.12424	-0.15506
{'fracByP0_01' }	0.00052174	0.00020988	0	0	0	5.5466e-05
{'fracByP10' }	0.088468	0.078014	0	0	0	0.020926
{'fracByP25' }	0.23963	0.20884	0	0.00054903	0.00055368	0.05585
{'fracByP50' }	0.47023	0.42435	0	0.050825	0.038234	0.12749
{'fracByP75' }	0.72369	0.69856	1	0.32873	0.30015	0.34959
{'fracByP90' }	0.88645	0.86342	1	0.63242	0.60618	0.63174
{'fracByP99_99' }	0.99996	1	1	0.99941	0.99924	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =2, ybin =80 to 100
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	90.039	37.916	0.46298	252.99	241.31	0.3349
{'unweighted_sum' }	3.2476e+05	1909	1	22077	3.6281e+06	307.9
{'sd' }	5.5217	12.122	0.49863	301.96	290.87	0.36988
{'coefofvar' }	0.061325	0.3197	1.077	1.1935	1.2054	1.1045
{'gini' }	0.034998	0.18084	0.38382	0.61732	0.64982	0.54596
{'min' }	80.004	19	0	0	0	0.023561
{'max' }	99.998	64	1	2322.2	2293.4	0.99767
{'pYis0' }	0	0	0.53702	0.24208	0.25465	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.46298	0.75792	0.74535	1
{'pYisMINY' }	0	0.035083	0.53702	0.24208	0.25465	1.5523e-07
{'pYisMAXY' }	0.00133	0.0033472	0.46298	2.9107e-08	0	0.034812
{'p0_01' }	80.013	19	0	0	0	0.036212
{'p10' }	82.135	21	0	0	0	0.046306
{'p25' }	85.034	27	0	0.049774	0	0.051402
{'p50' }	89.909	39	0	109.35	91.373	0.082174
{'p75' }	94.772	47	1	460.95	437.58	0.86176
{'p90' }	97.265	54	1	688.07	663.49	0.9332
{'p99_99' }	99.998	64	1	1788.7	1715.2	0.99767
{'fl_cov_y_all' }	30.489	-3.3145	0.58999	-191.83	-181.33	0.21857
{'fl_cor_y_all' }	1	-0.04952	0.21429	-0.11505	-0.11291	0.10702

{'fl_cov_age_ss' }	-3.3145	146.94	0.60041	1799	1765.8	-3.4268
{'fl_cor_age_ss' }	-0.04952	1	0.099337	0.49149	0.50082	-0.76431
{'fl_cov_educ_ss' }	0.58999	0.60041	0.24863	-41.766	-41.084	-0.018035
{'fl_cor_educ_ss' }	0.21429	0.099337	1	-0.27739	-0.28327	-0.097788
{'fl_cov_a_ss' }	-191.83	1799	-41.766	91179	87797	-71.101
{'fl_cor_a_ss' }	-0.11505	0.49149	-0.27739	1	0.99962	-0.63659
{'fl_cov_ap_ss' }	-181.33	1765.8	-41.084	87797	84604	-67.9
{'fl_cor_ap_ss' }	-0.11291	0.50082	-0.28327	0.99962	1	-0.63112
{'fl_cov_MPC' }	0.21857	-3.4268	-0.018035	-71.101	-67.9	0.13681
{'fl_cor_MPC' }	0.10702	-0.76431	-0.097788	-0.63659	-0.63112	1
{'fl_cov_Mass' }	6.7881e-05	-0.00071206	-1.5877e-05	-0.011797	-0.011253	2.6266e-05
{'fl_cor_Mass' }	0.12979	-0.62015	-0.33614	-0.41245	-0.40841	0.74967
{'fl_cov_c_ss' }	13.81	44.959	0.38427	3255	3075	-3.4892
{'fl_cor_c_ss' }	0.17864	0.26491	0.055044	0.76992	0.75508	-0.67377
{'fl_cov_y_head_inc' }	27.991	-33.549	-0.71972	-229.44	-222.68	1.1808
{'fl_cor_y_head_inc' }	0.68817	-0.37571	-0.19594	-0.10315	-0.10393	0.43337
{'fl_cov_y_spouse' }	4.0529	49.069	2.1256	61.036	67.102	-1.5617
{'fl_cor_y_spouse' }	0.084316	0.46501	0.48969	0.02322	0.026501	-0.48501
{'fl_cov_yshr_nttxss'}	0.012292	0.0057939	0.00052811	-0.062396	-0.057386	-0.0001422
{'fl_cor_yshr_nttxss'}	0.86232	0.18515	0.41026	-0.080042	-0.076422	-0.14892
{'fracByP0_01' }	0.0004722	0.017581	0	0	0	3.7567e-05
{'fracByP10' }	0.08985	0.077325	0	0	0	0.013305
{'fracByP25' }	0.22978	0.14147	0	2.3282e-06	0	0.035226
{'fracByP50' }	0.47444	0.38562	0	0.020734	0.015487	0.079131
{'fracByP75' }	0.73155	0.65569	1	0.39502	0.32113	0.37911
{'fracByP90' }	0.91125	0.86689	1	0.71623	0.64865	0.81314
{'fracByP99_99' }	1	1	1	0.99985	0.99927	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =2, ybin =100 to 2113.2092
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	239.21	39.249	0.43273	400.36	460.96	0.23581
{'unweighted_sum' }	4.1879e+07	1909	1	1.0976e+05	2.1436e+08	4237.5
{'sd' }	163.43	10.87	0.49545	548.18	564.37	0.34155
{'coefofvar' }	0.68323	0.27695	1.145	1.3692	1.2243	1.4484
{'gini' }	0.3254	0.15598	0.42649	0.63495	0.59127	0.62674
{'min' }	100	19	0	0	0	1.7705e-05
{'max' }	2112.7	64	1	7837.6	9093.4	0.99681
{'pYis0' }	0	0	0.56727	0.23597	0.19783	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.43273	0.76403	0.80217	1
{'pYisMINY' }	7.5638e-08	0.005804	0.56727	0.23597	0.19783	3.7072e-08
{'pYisMAXY' }	7.5646e-08	0.0037708	0.43273	0.00043012	7.5646e-08	6.9193e-17
{'p0_01' }	100.11	19	0	0	0	2.4286e-05
{'p10' }	110.92	25	0	0	0	0.041617
{'p25' }	131.56	30	0	0.39819	19.146	0.046092
{'p50' }	175.07	39	0	244.54	328.09	0.054546
{'p75' }	298.21	48	1	605.6	671.05	0.16698
{'p90' }	456.87	54	1	1092.6	1095	0.93313
{'p99_99' }	1896.6	64	1	7837.6	8285.2	0.99681
{'fl_cov_y_all' }	26710	191.5	7.4252	25727	43693	-12.696
{'fl_cor_y_all' }	1	0.1078	0.091699	0.28716	0.4737	-0.22745
{'fl_cov_age_ss' }	191.5	118.15	0.63362	3128.8	3192	-1.8283
{'fl_cor_age_ss' }	0.1078	1	0.11765	0.52508	0.52032	-0.49246
{'fl_cov_educ_ss' }	7.4252	0.63362	0.24547	48.406	47.296	-0.013458
{'fl_cor_educ_ss' }	0.091699	0.11765	1	0.17823	0.16915	-0.079528
{'fl_cov_a_ss' }	25727	3128.8	48.406	3.005e+05	2.9817e+05	-74.126
{'fl_cor_a_ss' }	0.28716	0.52508	0.17823	1	0.96378	-0.39591
{'fl_cov_ap_ss' }	43693	3192	47.296	2.9817e+05	3.1851e+05	-85.562
{'fl_cor_ap_ss' }	0.4737	0.52032	0.16915	0.96378	1	-0.44388
{'fl_cov_MPC' }	-12.696	-1.8283	-0.013458	-74.126	-85.562	0.11666
{'fl_cor_MPC' }	-0.22745	-0.49246	-0.079528	-0.39591	-0.44388	1

{'fl_cov_Mass' }	-0.002607	-0.00023665	-4.1598e-06	-0.0092423	-0.010765	1.4318e-05
{'fl_cor_Mass' }	-0.29311	-0.40003	-0.15428	-0.3098	-0.3505	0.77028
{'fl_cov_c_ss' }	8393.7	70.095	6.7359	18666	18353	-3.1955
{'fl_cor_c_ss' }	0.65748	0.082553	0.17405	0.43591	0.4163	-0.11977
{'fl_cov_y_head_inc' }	12770	211.76	7.2107	31802	30404	-1.5662
{'fl_cor_y_head_inc' }	0.61708	0.15385	0.11494	0.45815	0.42546	-0.036214
{'fl_cov_y_spouse' }	22624	-32.87	0.34811	-9859.7	21566	-18.064
{'fl_cor_y_spouse' }	0.65031	-0.014206	0.0033006	-0.084494	0.17952	-0.24845
{'fl_cov_yshr_nttxss'}	1.7806	0.01152	0.00032226	0.96877	2.3677	-0.0012326
{'fl_cor_yshr_nttxss'}	0.85624	0.083294	0.051119	0.13889	0.32971	-0.28362
{'fracByP0_01' }	0.00017312	0.0028097	0	0	0	9.019e-09
{'fracByP10' }	0.044011	0.070216	0	0	0	0.015492
{'fracByP25' }	0.11952	0.17229	0	1.1928e-05	0.00074228	0.043428
{'fracByP50' }	0.27768	0.3973	0	0.070835	0.096364	0.09648
{'fracByP75' }	0.5107	0.68629	1	0.33667	0.35525	0.17523
{'fracByP90' }	0.74255	0.85963	1	0.65081	0.63648	0.60473
{'fracByP99_99' }	0.99918	1	1	1	0.99838	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1 and kids =3
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =3, ybin =0 to 20
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	15.73	27.148	0.13971	20.143	17.321	0.30269
{'unweighted_sum' }	65717	1909	1	2195	2.9354e+05	1009.6
{'sd' }	3.5769	7.3785	0.34668	45.897	40.09	0.16725
{'coefofvar' }	0.2274	0.27179	2.4815	2.2786	2.3146	0.55255
{'gini' }	0.12307	0.13632	0.84121	0.80923	0.82757	0.29254
{'min' }	2.4223	19	0	0	0	0.047365
{'max' }	19.997	64	1	398.19	377.69	0.9701
{'pYis0' }	0	0	0.86029	0.13045	0.19638	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.13971	0.86955	0.80362	1
{'pYisMINY' }	8.7891e-05	0.071175	0.86029	0.13045	0.19638	0
{'pYisMAXY' }	7.5506e-09	0.00055424	0.13971	0.00019183	0	9.6953e-07
{'p0_01' }	2.4553	19	0	0	0	0.054737
{'p10' }	10.81	20	0	0	0	0.092949
{'p25' }	13.623	22	0	1.3439	0.39819	0.19813
{'p50' }	16.377	26	0	3.1855	3.1855	0.281
{'p75' }	18.904	30	0	6.2217	6.2185	0.39788
{'p90' }	19.831	35	1	86.009	76.366	0.49944
{'p99_99' }	19.996	64	1	398.19	364.03	0.93228
{'fl_cov_y_all' }	12.795	0.61894	0.0027653	18.75	18.996	-0.061839
{'fl_cor_y_all' }	1	0.023451	0.00223	0.11421	0.13247	-0.10337
{'fl_cov_age_ss' }	0.61894	54.443	0.1472	78.341	60.799	-0.17098
{'fl_cor_age_ss' }	0.023451	1	0.057546	0.23133	0.20554	-0.13855
{'fl_cov_educ_ss' }	0.0027653	0.1472	0.12019	0.088053	-0.060473	0.0044212
{'fl_cor_educ_ss' }	0.00223	0.057546	1	0.0055339	-0.004351	0.076249
{'fl_cov_a_ss' }	18.75	78.341	0.088053	2106.5	1834.6	-3.8757
{'fl_cor_a_ss' }	0.11421	0.23133	0.0055339	1	0.99703	-0.50489
{'fl_cov_ap_ss' }	18.996	60.799	-0.060473	1834.6	1607.2	-3.3859
{'fl_cor_ap_ss' }	0.13247	0.20554	-0.004351	0.99703	1	-0.50497
{'fl_cov_MPC' }	-0.061839	-0.17098	0.0044212	-3.8757	-3.3859	0.027973
{'fl_cor_MPC' }	-0.10337	-0.13855	0.076249	-0.50489	-0.50497	1
{'fl_cov_Mass' }	3.675e-05	-9.0531e-05	-1.9913e-06	-0.0003144	-0.00026434	1.7945e-07
{'fl_cor_Mass' }	0.37131	-0.44343	-0.20759	-0.24756	-0.2383	0.038777
{'fl_cov_c_ss' }	12.046	18.614	0.16131	278.91	237.75	-0.58601
{'fl_cor_c_ss' }	0.47228	0.35378	0.065251	0.8522	0.83166	-0.49136
{'fl_cov_y_head_inc' }	7.7705	-1.2732	-0.031956	46.394	36.338	0.077137
{'fl_cor_y_head_inc' }	0.50911	-0.040438	-0.021602	0.23689	0.21242	0.10809
{'fl_cov_y_spouse' }	6.9442	2.6152	0.047991	-38.21	-23.97	-0.19209

{'fl_cor_y_spouse' }	0.35721	0.065217	0.025471	-0.15318	-0.11001	-0.21132
{'fl_cov_yshr_nttxss'}	0.049922	0.0021332	2.4823e-05	0.032742	0.046334	-0.00039898
{'fl_cor_yshr_nttxss'}	0.93831	0.019438	0.0048139	0.047961	0.077701	-0.16038
{'fracByP0_01' }	1.6997e-05	0.049813	0	0	0	1.8857e-05
{'fracByP10' }	0.053479	0.12841	0	0	0	0.025382
{'fracByP25' }	0.17268	0.2111	0	0.01432	0.0013202	0.096505
{'fracByP50' }	0.40757	0.46438	0	0.059005	0.024425	0.29246
{'fracByP75' }	0.68876	0.66998	0	0.089105	0.072451	0.57827
{'fracByP90' }	0.87642	0.85123	1	0.34448	0.28735	0.78256
{'fracByP99_99' }	0.99995	1	1	1	0.99797	0.99971

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =3, ybin =20 to 40
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	30.622	33.523	0.19785	64.477	57.642	0.25587
{'unweighted_sum' }	1.8965e+05	1909	1	6132.2	1.3142e+06	886.58
{'sd' }	5.6987	9.1157	0.39837	96.81	88.551	0.17878
{'coefofvar' }	0.1861	0.27192	2.0136	1.5015	1.5362	0.69872
{'gini' }	0.10682	0.14981	0.76483	0.69824	0.71619	0.37219
{'min' }	20.001	19	0	0	0	0.039758
{'max' }	39.992	64	1	874.82	848.71	0.94635
{'pYis0' }	0	0	0.80215	0.081819	0.042252	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.19785	0.91818	0.95775	1
{'pYisMINY' }	1.4713e-05	0.016164	0.80215	0.081819	0.042252	0
{'pYisMAXY' }	1.6061e-05	0.00066583	0.19785	2.04e-06	0	0.00032683
{'p0_01' }	20.01	19	0	0	0	0.047229
{'p10' }	22.034	23	0	0.39819	0.39819	0.070134
{'p25' }	25.758	26	0	1.3439	1.3439	0.093252
{'p50' }	31.263	32	0	6.2217	5.8033	0.22203
{'p75' }	35.573	39	0	109.35	95.509	0.37307
{'p90' }	37.841	47	1	203.87	185.5	0.45821
{'p99_99' }	39.976	64	1	688.07	642.67	0.94635
{'fl_cov_y_all' }	32.475	14.566	0.10467	125.15	114.11	-0.11646
{'fl_cor_y_all' }	1	0.28039	0.046104	0.22685	0.22613	-0.11431
{'fl_cov_age_ss' }	14.566	83.095	-0.3056	105.87	93.416	-0.34815
{'fl_cor_age_ss' }	0.28039	1	-0.084154	0.11997	0.11573	-0.21363
{'fl_cov_educ_ss' }	0.10467	-0.3056	0.1587	0.54977	0.38413	0.0031059
{'fl_cor_educ_ss' }	0.046104	-0.084154	1	0.014255	0.010889	0.043609
{'fl_cov_a_ss' }	125.15	105.87	0.54977	9372.1	8563.5	-11.046
{'fl_cor_a_ss' }	0.22685	0.11997	0.014255	1	0.99894	-0.63819
{'fl_cov_ap_ss' }	114.11	93.416	0.38413	8563.5	7841.3	-9.9136
{'fl_cor_ap_ss' }	0.22613	0.11573	0.010889	0.99894	1	-0.6262
{'fl_cov_MPC' }	-0.11646	-0.34815	0.0031059	-11.046	-9.9136	0.031963
{'fl_cor_MPC' }	-0.11431	-0.21363	0.043609	-0.63819	-0.6262	1
{'fl_cov_Mass' }	-2.9851e-05	-0.00012685	-2.6417e-06	-0.0010703	-0.00095318	1.1802e-06
{'fl_cor_Mass' }	-0.18343	-0.48731	-0.23221	-0.38714	-0.37693	0.23116
{'fl_cov_c_ss' }	39.287	27.917	0.28928	894.08	802	-1.2737
{'fl_cor_c_ss' }	0.62014	0.27549	0.06532	0.83076	0.81471	-0.64084
{'fl_cov_y_head_inc' }	24.395	1.6805	-0.026994	171.2	150.03	0.044937
{'fl_cor_y_head_inc' }	0.75837	0.03266	-0.012004	0.31329	0.30014	0.044528
{'fl_cov_y_spouse' }	11.169	17.81	0.18198	-63.651	-49.642	-0.22309
{'fl_cor_y_spouse' }	0.35959	0.35847	0.083814	-0.12064	-0.10286	-0.22895
{'fl_cov_yshr_nttxss'}	0.055817	0.029792	0.00026425	0.16994	0.15907	-0.00028549
{'fl_cor_yshr_nttxss'}	0.96805	0.32301	0.06556	0.1735	0.17755	-0.15783
{'fracByP0_01' }	0.00056301	0.0091613	0	0	0	1.8045e-05
{'fracByP10' }	0.069689	0.075721	0	0.00058871	0.00027811	0.024493
{'fracByP25' }	0.18615	0.18105	0	0.0040315	0.0026157	0.072616
{'fracByP50' }	0.42177	0.41889	0	0.01619	0.014007	0.22412
{'fracByP75' }	0.69631	0.65552	0	0.23541	0.1848	0.52064
{'fracByP90' }	0.87257	0.86083	1	0.60875	0.54201	0.75677
{'fracByP99_99' }	0.99998	1	1	0.99968	0.99885	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =3, ybin =40 to 60
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	49.535	32.945	0.30376	119.47	108.73	0.44834
{'unweighted_sum' }	2.3893e+05	1909	1	10762	2.2214e+06	499.14
{'sd' }	5.6945	9.4769	0.45988	161.65	151.4	0.39881
{'coefofvar' }	0.11496	0.28766	1.514	1.353	1.3925	0.88952
{'gini' }	0.065725	0.15794	0.61477	0.68678	0.72555	0.4565
{'min' }	40.002	19	0	0	0	0.0022278
{'max' }	60	64	1	1343.9	1313.7	0.94635
{'pYis0' }	0	0	0.69624	0.35621	0.38087	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.30376	0.64379	0.61913	1
{'pYisMINY' }	6.9854e-08	0.0011391	0.69624	0.35621	0.38087	4.1874e-07
{'pYisMAXY' }	1.3714e-08	0.00066453	0.30376	5.0425e-07	0	0.0037921
{'p0_01' }	40.003	19	0	0	0	0.043433
{'p10' }	41.644	23	0	0	0	0.056472
{'p25' }	44.514	25	0	0	0	0.069776
{'p50' }	49.326	31	0	17.072	10.751	0.24797
{'p75' }	54.276	39	1	203.87	184.72	0.9325
{'p90' }	57.8	47	1	341.4	318.47	0.93271
{'p99_99' }	59.992	64	1	979.69	936.37	0.94635
{'fl_cov_y_all' }	32.428	2.9641	0.040114	74.523	66.429	-0.061427
{'fl_cor_y_all' }	1	0.054925	0.015318	0.080959	0.077048	-0.027048
{'fl_cov_age_ss' }	2.9641	89.812	1.12	696.54	653.64	-2.1732
{'fl_cor_age_ss' }	0.054925	1	0.25699	0.45469	0.45555	-0.57501
{'fl_cov_educ_ss' }	0.040114	1.12	0.21149	1.2351	1.0454	-0.044235
{'fl_cor_educ_ss' }	0.015318	0.25699	1	0.016614	0.015014	-0.24119
{'fl_cov_a_ss' }	74.523	696.54	1.2351	26130	24456	-45.427
{'fl_cor_a_ss' }	0.080959	0.45469	0.016614	1	0.99928	-0.70467
{'fl_cov_ap_ss' }	66.429	653.64	1.0454	24456	22923	-41.482
{'fl_cor_ap_ss' }	0.077048	0.45555	0.015014	0.99928	1	-0.68699
{'fl_cov_MPC' }	-0.061427	-2.1732	-0.044235	-45.427	-41.482	0.15905
{'fl_cor_MPC' }	-0.027048	-0.57501	-0.24119	-0.70467	-0.68699	1
{'fl_cov_Mass' }	-4.0567e-06	-0.0005809	-2.066e-05	-0.0094244	-0.0085839	3.74e-05
{'fl_cor_Mass' }	-0.0063714	-0.54821	-0.40179	-0.52144	-0.50707	0.83873
{'fl_cov_c_ss' }	34.286	50.417	0.51072	1761.6	1614.9	-4.1762
{'fl_cor_c_ss' }	0.45408	0.40123	0.083758	0.82189	0.80444	-0.78976
{'fl_cov_y_head_inc' }	28.845	-14.599	-0.9369	-27.684	-35.887	0.55428
{'fl_cor_y_head_inc' }	0.74909	-0.22781	-0.30128	-0.025327	-0.035053	0.20554
{'fl_cov_y_spouse' }	4.9523	24.275	1.3504	141.27	141.42	-0.85102
{'fl_cor_y_spouse' }	0.13909	0.40968	0.46965	0.13977	0.14939	-0.34129
{'fl_cov_yshr_nttxss'}	0.029895	0.0092191	0.00038456	0.10121	0.094084	-0.00028322
{'fl_cor_yshr_nttxss'}	0.95461	0.17689	0.15205	0.11386	0.11299	-0.12913
{'fracByP0_01' }	9.7191e-05	0.00065693	0	0	0	9.4085e-06
{'fracByP10' }	0.082301	0.0979	0	0	0	0.01169
{'fracByP25' }	0.2134	0.18261	0	0	0	0.032775
{'fracByP50' }	0.45177	0.42387	0	0.0047842	0.0036343	0.095774
{'fracByP75' }	0.71177	0.64954	1	0.2874	0.23798	0.52945
{'fracByP90' }	0.90338	0.84859	1	0.62234	0.58161	0.79711
{'fracByP99_99' }	1	1	1	0.99954	0.9991	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =3, ybin =60 to 80
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	68.766	38.422	0.24394	155.14	141.87	0.33552
{'unweighted_sum' }	2.8486e+05	1909	1	15665	2.9146e+06	335.07
{'sd' }	5.2465	7.9648	0.42945	198.43	187.79	0.33927

{'coefofvar' }	0.076294	0.20729	1.7605	1.279	1.3237	1.0112
{'gini' }	0.043528	0.11429	0.7009	0.64243	0.68091	0.52269
{'min' }	60.01	19	0	0	0	0.0086394
{'max' }	79.999	64	1	1788.7	1760.1	0.93305
{'pYis0' }	0	0	0.75606	0.29396	0.30781	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.24394	0.70604	0.69219	1
{'pYisMINY' }	1.759e-09	0	0.75606	0.29396	0.30781	1.3886e-07
{'pYisMAXY' }	3.9875e-05	0.00090921	0.24394	6.1544e-08	0	0.014119
{'p0_01' }	60.015	22	0	0	0	0.04046
{'p10' }	61.629	28	0	0	0	0.050478
{'p25' }	64.679	33	0	0	0	0.057636
{'p50' }	68.376	37	0	86.009	66.249	0.11606
{'p75' }	72.539	44	0	244.54	222.05	0.75152
{'p90' }	76.786	50	1	398.19	371.76	0.87066
{'p99_99' }	79.987	64	1	1343.9	1277	0.93305
{'fl_cov_y_all' }	27.525	9.6638	0.14787	257.68	241.62	-0.57393
{'fl_cor_y_all' }	1	0.23127	0.065631	0.24752	0.24524	-0.32244
{'fl_cov_age_ss' }	9.6638	63.437	-0.94992	209.64	221.9	-0.59723
{'fl_cor_age_ss' }	0.23127	1	-0.27771	0.13265	0.14836	-0.22102
{'fl_cov_educ_ss' }	0.14787	-0.94992	0.18443	15.729	14.761	0.016138
{'fl_cor_educ_ss' }	0.065631	-0.27771	1	0.18457	0.18304	0.11076
{'fl_cov_a_ss' }	257.68	209.64	15.729	39374	37237	-42.328
{'fl_cor_a_ss' }	0.24752	0.13265	0.18457	1	0.99932	-0.62875
{'fl_cov_ap_ss' }	241.62	221.9	14.761	37237	35265	-38.912
{'fl_cor_ap_ss' }	0.24524	0.14836	0.18304	0.99932	1	-0.61075
{'fl_cov_MPC' }	-0.57393	-0.59723	0.016138	-42.328	-38.912	0.1151
{'fl_cor_MPC' }	-0.32244	-0.22102	0.11076	-0.62875	-0.61075	1
{'fl_cov_Mass' }	-8.3666e-05	-0.00012374	6.5132e-07	-0.004601	-0.0042265	1.4297e-05
{'fl_cor_Mass' }	-0.3198	-0.31156	0.030414	-0.465	-0.45134	0.84509
{'fl_cov_c_ss' }	37.656	-4.0912	1.0584	2315.7	2142.9	-3.8233
{'fl_cor_c_ss' }	0.50791	-0.03635	0.1744	0.82585	0.80752	-0.79748
{'fl_cov_y_head_inc' }	25.681	7.031	0.22227	318.54	290.94	-0.68454
{'fl_cor_y_head_inc' }	0.81724	0.14738	0.086413	0.26802	0.25866	-0.33687
{'fl_cov_y_spouse' }	2.5496	3.6391	-0.10283	-84.117	-68.165	0.15289
{'fl_cor_y_spouse' }	0.10134	0.095275	-0.049931	-0.088396	-0.075692	0.093968
{'fl_cov_yshr_nttxss'}	0.016102	0.0063308	6.2339e-05	0.12655	0.12043	-0.00029768
{'fl_cor_yshr_nttxss'}	0.96589	0.25016	0.045684	0.20072	0.20183	-0.27613
{'fracByP0_01' }	0.00043182	7.2576e-05	0	0	0	1.177e-05
{'fracByP10' }	0.091949	0.070357	0	0	0	0.01427
{'fracByP25' }	0.22952	0.23037	0	0	0	0.038283
{'fracByP50' }	0.48225	0.41732	0	0.046614	0.027053	0.095223
{'fracByP75' }	0.72366	0.71141	0	0.34006	0.28702	0.37731
{'fracByP90' }	0.88682	0.88002	1	0.63121	0.59108	0.76561
{'fracByP99_99' }	0.99995	1	1	0.99981	0.99907	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =3, ybin =80 to 100
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	90.067	37.725	0.56121	208.91	195.92	0.35602
{'unweighted_sum' }	3.2476e+05	1909	1	22077	3.6194e+06	324.22
{'sd' }	5.6171	10.245	0.49624	264.98	253.42	0.36817
{'coefofvar' }	0.062366	0.27157	0.88422	1.2684	1.2935	1.0341
{'gini' }	0.035586	0.15102	0.25543	0.6564	0.68721	0.52673
{'min' }	80.004	19	0	0	0	0.023873
{'max' }	99.998	64	1	2322.2	2289.9	0.99615
{'pYis0' }	0	0	0.43879	0.32185	0.31157	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.56121	0.67815	0.68843	1
{'pYisMINY' }	0	0.017339	0.43879	0.32185	0.31157	3.1922e-08
{'pYisMAXY' }	0.00089945	0.0012782	0.56121	6.7898e-09	0	0.00080111
{'p0_01' }	80.013	19	0	0	0	0.039391

{'p10' }	82	22	0	0	0	0.047933
{'p25' }	84.961	32	0	0	0	0.053933
{'p50' }	90.194	38	1	66.249	49.968	0.14335
{'p75' }	94.882	45	1	398.19	363.73	0.84058
{'p90' }	97.265	51	1	605.6	576.66	0.93319
{'p99_99' }	99.998	64	1	1631	1570.9	0.99615
{'fl_cov_y_all' }	31.552	-0.70902	0.5617	-228.86	-216.12	0.093863
{'fl_cor_y_all' }	1	-0.012321	0.20151	-0.15376	-0.15183	0.045387
{'fl_cov_age_ss' }	-0.70902	104.96	0.67632	1056	1031.9	-2.465
{'fl_cor_age_ss' }	-0.012321	1	0.13303	0.38899	0.39746	-0.65351
{'fl_cov_educ_ss' }	0.5617	0.67632	0.24625	-47.315	-46.216	-0.0020941
{'fl_cor_educ_ss' }	0.20151	0.13303	1	-0.35983	-0.3675	-0.011462
{'fl_cov_a_ss' }	-228.86	1056	-47.315	70216	67119	-62.573
{'fl_cor_a_ss' }	-0.15376	0.38899	-0.35983	1	0.99952	-0.64139
{'fl_cov_ap_ss' }	-216.12	1031.9	-46.216	67119	64221	-58.834
{'fl_cor_ap_ss' }	-0.15183	0.39746	-0.3675	0.99952	1	-0.63058
{'fl_cov_MPC' }	0.093863	-2.465	-0.0020941	-62.573	-58.834	0.13555
{'fl_cor_MPC' }	0.045387	-0.65351	-0.011462	-0.64139	-0.63058	1
{'fl_cov_Mass' }	1.7397e-05	-0.0003069	-5.8835e-06	-0.0058666	-0.0055059	1.4799e-05
{'fl_cor_Mass' }	0.061521	-0.59505	-0.23551	-0.43978	-0.43157	0.79845
{'fl_cov_c_ss' }	12.067	30.618	-0.25405	2888.6	2702.2	-3.8377
{'fl_cor_c_ss' }	0.15343	0.21345	-0.036565	0.77858	0.76157	-0.74449
{'fl_cov_y_head_inc' }	28.628	-25.076	-0.88334	-109.91	-106.05	0.68032
{'fl_cor_y_head_inc' }	0.69496	-0.33375	-0.24273	-0.056557	-0.057064	0.25197
{'fl_cov_y_spouse' }	4.041	33.68	1.9973	-164.41	-152.13	-0.8106
{'fl_cor_y_spouse' }	0.098227	0.44886	0.54955	-0.084715	-0.081966	-0.30061
{'fl_cov_yshr_nttxss'}	0.0132	0.0032648	0.000443	-0.11124	-0.10455	-4.3636e-05
{'fl_cor_yshr_nttxss'}	0.94388	0.12799	0.35856	-0.16861	-0.1657	-0.047604
{'fracByP0_01' }	0.00048927	0.0087329	0	0	0	2.5202e-05
{'fracByP10' }	0.089826	0.072757	0	0	0	0.012839
{'fracByP25' }	0.23035	0.18232	0	0	0	0.034396
{'fracByP50' }	0.47349	0.4085	1	0.014622	0.0088096	0.086087
{'fracByP75' }	0.73106	0.68345	1	0.37326	0.27757	0.37984
{'fracByP90' }	0.91641	0.87149	1	0.70099	0.62446	0.7578
{'fracByP99_99' }	1	1	1	0.9997	0.99918	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =3, ybin =100 to 2113.2092
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	238.45	37.582	0.40882	278.34	327.49	0.29146
{'unweighted_sum' }	4.1879e+07	1909	1	1.0976e+05	2.1146e+08	4529.6
{'sd' }	162.81	9.3461	0.49162	420.57	436.46	0.37382
{'coefofvar' }	0.6828	0.24869	1.2025	1.511	1.3328	1.2826
{'gini' }	0.32677	0.13884	0.46088	0.68027	0.63348	0.59961
{'min' }	100	19	0	0	0	2.8184e-05
{'max' }	2112.7	64	1	7837.6	8932.1	0.99986
{'pYis0' }	0	0	0.59118	0.30596	0.25801	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.40882	0.69404	0.74199	1
{'pYisMINY' }	1.8252e-08	0.0025144	0.59118	0.30596	0.25801	4.9057e-10
{'pYisMAXY' }	2.248e-08	0.0011943	0.40882	0.00016562	2.248e-08	0.0021549
{'p0_01' }	100.11	19	0	0	0	4.9697e-05
{'p10' }	111.35	26	0	0	0	0.043189
{'p25' }	131.56	30	0	0	0	0.04753
{'p50' }	171.38	37	0	136.58	217.35	0.059033
{'p75' }	304.92	44	1	398.19	462.57	0.80329
{'p90' }	457.05	51	1	777.71	840.99	0.93319
{'p99_99' }	1864.2	64	1	7837.6	8236.3	0.99986
{'fl_cov_y_all' }	26509	180.72	9.0972	16756	32282	-15.725
{'fl_cor_y_all' }	1	0.11876	0.11365	0.24471	0.45427	-0.25837
{'fl_cov_age_ss' }	180.72	87.349	0.75243	1918.9	1982.3	-1.5767
{'fl_cor_age_ss' }	0.11876	1	0.16376	0.48818	0.48594	-0.4513

{'fl_cov_educ_ss' }	9.0972	0.75243	0.24169	43.145	42.709	-0.020817
{'fl_cor_educ_ss' }	0.11365	0.16376	1	0.20867	0.19904	-0.11328
{'fl_cov_a_ss' }	16756	1918.9	43.145	1.7688e+05	1.752e+05	-66.476
{'fl_cor_a_ss' }	0.24471	0.48818	0.20867	1	0.95442	-0.42284
{'fl_cov_ap_ss' }	32282	1982.3	42.709	1.752e+05	1.905e+05	-78.511
{'fl_cor_ap_ss' }	0.45427	0.48594	0.19904	0.95442	1	-0.4812
{'fl_cov_MPC' }	-15.725	-1.5767	-0.020817	-66.476	-78.511	0.13974
{'fl_cor_MPC' }	-0.25837	-0.4513	-0.11328	-0.42284	-0.4812	1
{'fl_cov_Mass' }	-0.0023179	-0.00015407	-4.8028e-06	-0.006148	-0.0072845	1.2845e-05
{'fl_cor_Mass' }	-0.31767	-0.36784	-0.218	-0.3262	-0.37243	0.76679
{'fl_cov_c_ss' }	8384.4	74.626	7.47	13124	12590	-3.8674
{'fl_cor_c_ss' }	0.6411	0.099405	0.18917	0.38849	0.3591	-0.1288
{'fl_cov_y_head_inc' }	11899	169.36	8.198	20384	18741	-1.0619
{'fl_cor_y_head_inc' }	0.59121	0.1466	0.1349	0.39209	0.34737	-0.02298
{'fl_cov_y_spouse' }	20194	15.7	1.2428	-5013.8	18715	-20.267
{'fl_cor_y_spouse' }	0.66899	0.0090609	0.013636	-0.064303	0.23129	-0.29244
{'fl_cov_yshr_nttxss'}	1.8071	0.01364	0.00053825	0.68047	1.8657	-0.0014383
{'fl_cor_yshr_nttxss'}	0.86817	0.11415	0.085638	0.12655	0.33435	-0.30096
{'fracByP0_01' }	8.8352e-05	0.0012712	0	0	0	1.5485e-08
{'fracByP10' }	0.044288	0.081956	0	0	0	0.013331
{'fracByP25' }	0.12284	0.18764	0	0	0	0.036672
{'fracByP50' }	0.27558	0.41724	0	0.041663	0.069532	0.081577
{'fracByP75' }	0.50961	0.67428	1	0.28463	0.32653	0.21252
{'fracByP90' }	0.74298	0.87682	1	0.59637	0.61081	0.69609
{'fracByP99_99' }	0.99919	1	1	1	0.9976	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1 and kids =4
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =4, ybin =0 to 20
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	15.92	28.824	0.10569	21.514	18.014	0.39973
{'unweighted_sum' }	65717	1909	1	2195	2.9526e+05	1039.7
{'sd' }	3.4746	6.5759	0.30744	44.961	38.924	0.27017
{'coefofvar' }	0.21826	0.22814	2.9088	2.0898	2.1607	0.67588
{'gini' }	0.11782	0.11695	0.88327	0.80513	0.82894	0.36771
{'min' }	2.4223	19	0	0	0	0.047077
{'max' }	19.997	64	1	398.19	377.34	0.96813
{'pYis0' }	0	0	0.89431	0.19337	0.25246	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.10569	0.80663	0.74754	1
{'pYisMINY' }	4.4648e-05	0.035317	0.89431	0.19337	0.25246	0
{'pYisMAXY' }	5.0503e-09	0.00022761	0.10569	0.0001308	0	0.00056748
{'p0_01' }	2.4712	19	0	0	0	0.056718
{'p10' }	10.922	21	0	0	0	0.094956
{'p25' }	13.825	25	0	0.39819	0	0.17359
{'p50' }	16.785	28	0	1.3439	1.3439	0.36116
{'p75' }	18.761	32	0	6.2217	5.3893	0.4877
{'p90' }	19.599	36	1	86.009	74.937	0.87646
{'p99_99' }	19.996	64	1	398.19	364.32	0.96813
{'fl_cov_y_all' }	12.073	1.0198	0.0026617	13.539	13.866	0.1224
{'fl_cor_y_all' }	1	0.044631	0.0024917	0.086667	0.10253	0.13039
{'fl_cov_age_ss' }	1.0198	43.242	0.20411	62.303	49.466	-0.51958
{'fl_cor_age_ss' }	0.044631	1	0.10096	0.21073	0.19326	-0.29245
{'fl_cov_educ_ss' }	0.0026617	0.20411	0.094522	0.54997	0.33956	-0.00013628
{'fl_cor_educ_ss' }	0.0024917	0.10096	1	0.039787	0.028375	-0.0016406
{'fl_cov_a_ss' }	13.539	62.303	0.54997	2021.5	1745.7	-6.1354
{'fl_cor_a_ss' }	0.086667	0.21073	0.039787	1	0.99752	-0.50509
{'fl_cov_ap_ss' }	13.866	49.466	0.33956	1745.7	1515.1	-5.2333
{'fl_cor_ap_ss' }	0.10253	0.19326	0.028375	0.99752	1	-0.49765
{'fl_cov_MPC' }	0.1224	-0.51958	-0.00013628	-6.1354	-5.2333	0.072992

{'fl_cor_MPC' }	0.13039	-0.29245	-0.0016406	-0.50509	-0.49765	1
{'fl_cov_Mass' }	8.7457e-06	-1.6837e-05	-5.5834e-07	-0.00010911	-9.0032e-05	6.2376e-07
{'fl_cor_Mass' }	0.35705	-0.36322	-0.25762	-0.34425	-0.32812	0.32751
{'fl_cov_c_ss' }	9.8505	13.682	0.21257	287.24	242.38	-0.79945
{'fl_cor_c_ss' }	0.38885	0.28538	0.094835	0.87626	0.85413	-0.40587
{'fl_cov_y_head_inc' }	6.4078	-0.051251	0.016523	46.786	37.395	0.51097
{'fl_cor_y_head_inc' }	0.4231	-0.0017881	0.01233	0.23874	0.22041	0.43391
{'fl_cov_y_spouse' }	5.6652	1.071	-0.013861	-33.247	-23.529	-0.38857
{'fl_cor_y_spouse' }	0.3816	0.038119	-0.010552	-0.17307	-0.14148	-0.33661
{'fl_cov_yshr_nttxss'}	0.045469	0.0030301	6.0898e-06	0.052823	0.054117	0.0004284
{'fl_cor_yshr_nttxss'}	0.98863	0.034812	0.0014964	0.088758	0.10504	0.11979
{'fracByP0_01' }	1.6753e-05	0.02328	0	0	0	1.6522e-05
{'fracByP10' }	0.052925	0.07685	0	0	0	0.019979
{'fracByP25' }	0.17591	0.24656	0	0.0019934	0	0.066452
{'fracByP50' }	0.41866	0.44728	0	0.016735	0.012467	0.23588
{'fracByP75' }	0.69679	0.70321	0	0.052269	0.047932	0.50141
{'fracByP90' }	0.88461	0.863	1	0.43989	0.3519	0.78504
{'fracByP99_99' }	0.99992	1	1	1	0.99807	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =4, ybin =20 to 40
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	30.877	33.959	0.16939	59.466	51.891	0.38426
{'unweighted_sum' }	1.8965e+05	1909	1	6132.2	1.3117e+06	910.45
{'sd' }	5.4752	7.7307	0.37509	86.524	78.486	0.31355
{'coefofvar' }	0.17732	0.22765	2.2144	1.455	1.5125	0.81598
{'gini' }	0.10148	0.12436	0.80288	0.69118	0.73339	0.44119
{'min' }	20.001	19	0	0	0	0.041597
{'max' }	39.992	64	1	874.82	847.61	0.99736
{'pYis0' }	0	0	0.83061	0.25976	0.28909	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.16939	0.74024	0.71091	1
{'pYisMINY' }	8.4486e-06	0.0068647	0.83061	0.25976	0.28909	0
{'pYisMAXY' }	5.9638e-06	0.00023522	0.16939	6.041e-07	0	6.2599e-05
{'p0_01' }	20.01	19	0	0	0	0.049508
{'p10' }	22.484	25	0	0	0	0.077271
{'p25' }	26.532	28	0	0	0	0.09954
{'p50' }	31.567	33	0	6.2217	3.9594	0.31741
{'p75' }	35.462	39	0	109.35	93.694	0.69276
{'p90' }	37.795	45	1	167.99	151.95	0.89985
{'p99_99' }	39.976	64	1	605.6	577.08	0.96813
{'fl_cov_y_all' }	29.977	11.316	0.13613	99.277	88.703	-0.42409
{'fl_cor_y_all' }	1	0.26735	0.066286	0.20956	0.20642	-0.24704
{'fl_cov_age_ss' }	11.316	59.764	-0.066574	70.256	62.074	-1.0122
{'fl_cor_age_ss' }	0.26735	1	-0.022959	0.10503	0.10231	-0.41758
{'fl_cov_educ_ss' }	0.13613	-0.066574	0.14069	1.2921	1.1066	0.0067131
{'fl_cor_educ_ss' }	0.066286	-0.022959	1	0.039814	0.03759	0.05708
{'fl_cov_a_ss' }	99.277	70.256	1.2921	7486.4	6783	-17.457
{'fl_cor_a_ss' }	0.20956	0.10503	0.039814	1	0.99883	-0.64348
{'fl_cov_ap_ss' }	88.703	62.074	1.1066	6783	6160.1	-15.363
{'fl_cor_ap_ss' }	0.20642	0.10231	0.03759	0.99883	1	-0.62428
{'fl_cov_MPC' }	-0.42409	-1.0122	0.0067131	-17.457	-15.363	0.098311
{'fl_cor_MPC' }	-0.24704	-0.41758	0.05708	-0.64348	-0.62428	1
{'fl_cov_Mass' }	-2.4709e-05	-8.9409e-05	-2.4337e-06	-0.0010136	-0.00088636	6.3946e-06
{'fl_cor_Mass' }	-0.1445	-0.37032	-0.20775	-0.37511	-0.3616	0.65301
{'fl_cov_c_ss' }	34.557	17.22	0.29459	782.67	693.78	-2.433
{'fl_cor_c_ss' }	0.5847	0.20635	0.072756	0.83798	0.81888	-0.71885
{'fl_cov_y_head_inc' }	21.781	1.6645	0.014723	140.88	122.08	-0.23913
{'fl_cor_y_head_inc' }	0.75068	0.040629	0.0074067	0.30723	0.2935	-0.14392
{'fl_cov_y_spouse' }	8.196	9.6516	0.12141	-41.598	-33.373	-0.18496
{'fl_cor_y_spouse' }	0.39313	0.32788	0.085003	-0.12626	-0.11167	-0.15492
{'fl_cov_yshr_nttxss'}	0.053753	0.019677	0.00025169	0.17284	0.15447	-0.00074109

{'fl_cor_yshr_nttxss'}	0.99546	0.25808	0.068038	0.20255	0.19956	-0.23966
{'fracByP0_01' }	0.0011121	0.0038408	0	0	0	1.3454e-05
{'fracByP10' }	0.072546	0.085405	0	0	0	0.017652
{'fracByP25' }	0.19049	0.1977	0	0	0	0.05238
{'fracByP50' }	0.42903	0.43726	0	0.0074062	0.0045274	0.16117
{'fracByP75' }	0.69836	0.70052	0	0.30649	0.20155	0.44062
{'fracByP90' }	0.87412	0.87346	1	0.58178	0.5465	0.76247
{'fracByP99_99' }	0.99999	1	1	0.99909	0.99879	0.99984

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =4, ybin =40 to 60
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	50.11	33.291	0.29962	101.32	90.221	0.46181
{'unweighted_sum' }	2.3893e+05	1909	1	10762	2.2173e+06	508.46
{'sd' }	5.7048	8.2288	0.45809	139.51	129.41	0.3983
{'coefofvar' }	0.11385	0.24718	1.5289	1.3769	1.4344	0.86247
{'gini' }	0.064792	0.13525	0.62081	0.69813	0.73812	0.44482
{'min' }	40.002	19	0	0	0	0.0010686
{'max' }	60	64	1	1343.9	1312	0.99922
{'pYis0' }	0	0	0.70038	0.40105	0.41175	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.29962	0.59895	0.58825	1
{'pYisMINY' }	2.8633e-08	0	0.70038	0.40105	0.41175	9.7475e-08
{'pYisMAXY' }	1.9402e-09	0.00024758	0.29962	1.4213e-07	0	0.029726
{'p0_01' }	40.024	20	0	0	0	0.045284
{'p10' }	42.31	24	0	0	0	0.06195
{'p25' }	45.445	27	0	0	0	0.081507
{'p50' }	49.921	31	0	17.072	11.01	0.24823
{'p75' }	54.852	39	1	167.99	148.84	0.93313
{'p90' }	57.8	45	1	290.28	266.37	0.9332
{'p99_99' }	59.991	64	1	874.82	840.14	0.99922
{'fl_cov_y_all' }	32.545	-2.1417	-0.17044	-17.204	-18.364	0.12188
{'fl_cor_y_all' }	1	-0.045623	-0.065218	-0.021616	-0.024874	0.053639
{'fl_cov_age_ss' }	-2.1417	67.712	1.3251	494.43	458.65	-1.6719
{'fl_cor_age_ss' }	-0.045623	1	0.35154	0.4307	0.4307	-0.5101
{'fl_cov_educ_ss' }	-0.17044	1.3251	0.20985	4.1787	3.6828	-0.046936
{'fl_cor_educ_ss' }	-0.065218	0.35154	1	0.065386	0.062124	-0.25724
{'fl_cov_a_ss' }	-17.204	494.43	4.1787	19463	18037	-39.067
{'fl_cor_a_ss' }	-0.021616	0.4307	0.065386	1	0.99905	-0.70307
{'fl_cov_ap_ss' }	-18.364	458.65	3.6828	18037	16747	-35.013
{'fl_cor_ap_ss' }	-0.024874	0.4307	0.062124	0.99905	1	-0.67929
{'fl_cov_MPC' }	0.12188	-1.6719	-0.046936	-39.067	-35.013	0.15864
{'fl_cor_MPC' }	0.053639	-0.5101	-0.25724	-0.70307	-0.67929	1
{'fl_cov_Mass' }	0.00011582	-0.00033678	-1.6351e-05	-0.0058929	-0.0052558	2.7033e-05
{'fl_cor_Mass' }	0.23626	-0.4763	-0.41538	-0.49158	-0.47265	0.78984
{'fl_cov_c_ss' }	26.475	34.124	0.36409	1412.7	1275.5	-3.9587
{'fl_cor_c_ss' }	0.3694	0.33009	0.063263	0.80604	0.78453	-0.79111
{'fl_cov_y_head_inc' }	30.316	-17.291	-1.3199	-105.85	-105.41	0.67488
{'fl_cor_y_head_inc' }	0.7495	-0.29636	-0.40639	-0.10701	-0.11489	0.23897
{'fl_cov_y_spouse' }	2.2282	15.149	1.1495	88.644	87.049	-0.553
{'fl_cor_y_spouse' }	0.082927	0.39087	0.53277	0.1349	0.14282	-0.29478
{'fl_cov_yshr_nttxss'}	0.0319	-0.0019401	-0.00014205	-0.01993	-0.020665	0.00012384
{'fl_cor_yshr_nttxss'}	0.99778	-0.042071	-0.055333	-0.025491	-0.028495	0.05548
{'fracByP0_01' }	0.00021464	0.0059296	0	0	0	1.2594e-05
{'fracByP10' }	0.082371	0.082527	0	0	0	0.012187
{'fracByP25' }	0.21274	0.20354	0	0	0	0.03497
{'fracByP50' }	0.4676	0.40757	0	0.0052862	0.0030415	0.10698
{'fracByP75' }	0.72105	0.68637	1	0.27372	0.2286	0.53229
{'fracByP90' }	0.887	0.85698	1	0.62217	0.57004	0.80078
{'fracByP99_99' }	0.99997	1	1	0.99923	0.999	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =4, ybin =60 to 80

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	68.42	37.729	0.19707	121.65	108.4	0.41226
{'unweighted_sum' }	2.8486e+05	1909	1	15665	2.9099e+06	374.5
{'sd' }	5.2	6.7618	0.39778	159.14	148.68	0.3921
{'coefofvar' }	0.076002	0.17922	2.0185	1.3081	1.3716	0.9511
{'gini' }	0.043328	0.09738	0.76589	0.65345	0.69721	0.48727
{'min' }	60.01	19	0	0	0	0.00050997
{'max' }	79.999	64	1	1788.7	1756.4	0.93363
{'pYis0' }	0	0	0.80293	0.34149	0.35448	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.19707	0.65851	0.64552	1
{'pYisMINY' }	1.7684e-10	0	0.80293	0.34149	0.35448	6.0617e-08
{'pYisMAXY' }	4.9973e-05	0.00029507	0.19707	1.1949e-08	0	0.0011039
{'p0_01' }	60.015	23	0	0	0	0.042327
{'p10' }	61.629	29	0	0	0	0.053475
{'p25' }	64.518	33	0	0	0	0.067473
{'p50' }	68.01	37	0	66.249	48.827	0.15824
{'p75' }	72.047	42	0	203.87	178.6	0.92513
{'p90' }	76.39	47	1	341.4	300.36	0.93227
{'p99_99' }	79.987	64	1	1213.9	1160.9	0.93363
{'fl_cov_y_all' }	27.04	9.8389	0.28452	250.34	230.23	-0.68052
{'fl_cor_y_all' }	1	0.27982	0.13755	0.30252	0.29779	-0.33377
{'fl_cov_age_ss' }	9.8389	45.722	-0.71734	135.92	142.67	-0.22431
{'fl_cor_age_ss' }	0.27982	1	-0.2667	0.12631	0.14191	-0.084606
{'fl_cov_educ_ss' }	0.28452	-0.71734	0.15823	11.313	10.671	0.0085509
{'fl_cor_educ_ss' }	0.13755	-0.2667	1	0.17871	0.18042	0.054825
{'fl_cov_a_ss' }	250.34	135.92	11.313	25324	23637	-41.478
{'fl_cor_a_ss' }	0.30252	0.12631	0.17871	1	0.99904	-0.66474
{'fl_cov_ap_ss' }	230.23	142.67	10.671	23637	22105	-37.229
{'fl_cor_ap_ss' }	0.29779	0.14191	0.18042	0.99904	1	-0.63862
{'fl_cov_MPC' }	-0.68052	-0.22431	0.0085509	-41.478	-37.229	0.15374
{'fl_cor_MPC' }	-0.33377	-0.084606	0.054825	-0.66474	-0.63862	1
{'fl_cov_Mass' }	-0.0001166	-7.9084e-05	-3.0803e-06	-0.004168	-0.0037345	1.6812e-05
{'fl_cor_Mass' }	-0.40361	-0.21051	-0.13938	-0.47142	-0.45211	0.77177
{'fl_cov_c_ss' }	40.86	0.80719	0.86008	1879	1708.6	-4.7708
{'fl_cor_c_ss' }	0.55317	0.0084038	0.15222	0.83124	0.80901	-0.85658
{'fl_cov_y_head_inc' }	25.117	6.9323	0.44286	273.32	245.86	-0.74565
{'fl_cor_y_head_inc' }	0.82944	0.17605	0.19118	0.29494	0.28397	-0.32656
{'fl_cov_y_spouse' }	1.9235	2.9066	-0.15834	-22.978	-15.636	0.065131
{'fl_cor_y_spouse' }	0.11298	0.1313	-0.12159	-0.044104	-0.032124	0.050738
{'fl_cov_yshr_nttxss'}	0.017229	0.0064719	0.0001747	0.15477	0.14222	-0.00042769
{'fl_cor_yshr_nttxss'}	0.99861	0.28847	0.13237	0.29312	0.28831	-0.32876
{'fracByP0_01' }	0.00011431	7.7533e-05	0	0	0	1.0534e-05
{'fracByP10' }	0.10064	0.074377	0	0	0	0.012223
{'fracByP25' }	0.22887	0.22903	0	0	0	0.03367
{'fracByP50' }	0.46889	0.46599	0	0.044543	0.022298	0.093666
{'fracByP75' }	0.72507	0.7152	0	0.37395	0.28328	0.44113
{'fracByP90' }	0.88674	0.87638	1	0.68311	0.58284	0.77533
{'fracByP99_99' }	0.99994	1	1	0.99971	0.9989	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =4, ybin =80 to 100
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	90.229	37.669	0.69676	155.94	142.76	0.45318
{'unweighted_sum' }	3.2476e+05	1909	1	22077	3.6134e+06	332.33
{'sd' }	5.5699	8.4868	0.45966	220.32	208.86	0.39701
{'coefofvar' }	0.06173	0.2253	0.65971	1.4129	1.463	0.87605
{'gini' }	0.035196	0.12204	0.11659	0.7142	0.74884	0.45602

{'min' }	80.004	19	0	0	0	0.022257
{'max' }	99.998	64	1	2322.2	2285.5	0.99992
{'pYis0' }	0	0	0.30324	0.40829	0.42353	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.69676	0.59171	0.57647	1
{'pYisMINY' }	0	0.0084738	0.30324	0.40829	0.42353	1.0423e-08
{'pYisMAXY' }	0.00049592	0.0005244	0.69676	1.2182e-09	0	0.00031537
{'p0_01' }	80.013	19	0	0	0	0.041593
{'p10' }	82.19	23	0	0	0	0.050384
{'p25' }	85.266	33	0	0	0	0.061828
{'p50' }	90.735	37	1	25.484	17.072	0.23883
{'p75' }	94.92	43	1	290.28	254.56	0.92607
{'p90' }	97.265	49	1	460.95	438.4	0.9332
{'p99_99' }	99.998	64	1	1482.8	1431.2	0.99992
{'fl_cov_y_all' }	31.024	4.4393	0.45116	-189.91	-180.61	0.11874
{'fl_cor_y_all' }	1	0.093914	0.17622	-0.15475	-0.15525	0.053698
{'fl_cov_age_ss' }	4.4393	72.025	0.55424	576.37	564.51	-1.198
{'fl_cor_age_ss' }	0.093914	1	0.14208	0.30825	0.31847	-0.35555
{'fl_cov_educ_ss' }	0.45116	0.55424	0.21129	-44.87	-43.553	0.030989
{'fl_cor_educ_ss' }	0.17622	0.14208	1	-0.44305	-0.45366	0.16981
{'fl_cov_a_ss' }	-189.91	576.37	-44.87	48543	45982	-60.8
{'fl_cor_a_ss' }	-0.15475	0.30825	-0.44305	1	0.99924	-0.69509
{'fl_cov_ap_ss' }	-180.61	564.51	-43.553	45982	43623	-55.946
{'fl_cor_ap_ss' }	-0.15525	0.31847	-0.45366	0.99924	1	-0.67469
{'fl_cov_MPC' }	0.11874	-1.198	0.030989	-60.8	-55.946	0.15762
{'fl_cor_MPC' }	0.053698	-0.35555	0.16981	-0.69509	-0.67469	1
{'fl_cov_Mass' }	-1.6128e-05	-0.00010443	1.705e-06	-0.0036819	-0.0033803	1.0647e-05
{'fl_cor_Mass' }	-0.088053	-0.37418	0.1128	-0.50817	-0.49215	0.81553
{'fl_cov_c_ss' }	14.298	15.234	-0.97325	2416	2222.1	-4.7641
{'fl_cor_c_ss' }	0.17937	0.12543	-0.14794	0.76621	0.74338	-0.83848
{'fl_cov_y_head_inc' }	26.862	-12.808	-0.89943	23.72	19.706	0.09052
{'fl_cor_y_head_inc' }	0.69668	-0.21802	-0.28267	0.015552	0.01363	0.032938
{'fl_cov_y_spouse' }	4.1623	17.247	1.3506	-213.63	-200.31	0.028222
{'fl_cor_y_spouse' }	0.14881	0.40469	0.5851	-0.19308	-0.19098	0.014155
{'fl_cov_yshr_nttxss'}	0.013809	0.0019275	0.00020266	-0.086242	-0.081906	6.0018e-05
{'fl_cor_yshr_nttxss'}	0.99916	0.091533	0.17769	-0.15775	-0.15805	0.060926
{'fracByP0_01' }	0.00033505	0.0042742	0	0	0	1.7177e-05
{'fracByP10' }	0.090688	0.05995	0	0	0	0.01048
{'fracByP25' }	0.22931	0.20684	0	0	0	0.028855
{'fracByP50' }	0.47431	0.4193	1	0.0063443	0.0039203	0.092671
{'fracByP75' }	0.73215	0.69112	1	0.27209	0.20044	0.5152
{'fracByP90' }	0.9148	0.88297	1	0.60126	0.56778	0.84628
{'fracByP99_99' }	1	1	1	0.99942	0.99898	1

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Marital =1, kids =4, ybin =100 to 2113.2092
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxx tb_outcomes: all stats xxx

OriginalVariableNames	y_all	age_ss	educ_ss	a_ss	ap_ss	MPC
{'mean' }	238.7	36.762	0.37885	192.28	224.61	0.34769
{'unweighted_sum' }	4.1879e+07	1909	1	1.0976e+05	2.0754e+08	4809.1
{'sd' }	162.77	8.0159	0.4851	318.63	330.15	0.39525
{'coefofvar' }	0.68192	0.21805	1.2805	1.6571	1.4699	1.1368
{'gini' }	0.3276	0.12034	0.50457	0.71762	0.67385	0.56068
{'min' }	100	19	0	0	0	3.8102e-05
{'max' }	2112.7	64	1	7837.6	8704.3	0.99992
{'pYis0' }	0	0	0.62115	0.36602	0.30977	0
{'pYls0' }	0	0	0	0	0	0
{'pYgr0' }	1	1	0.37885	0.63398	0.69023	1
{'pYisMINY' }	2.9038e-09	0.0010904	0.62115	0.36602	0.30977	1.0707e-10
{'pYisMAXY' }	4.9673e-09	0.00041114	0.37885	6.1249e-05	2.0045e-08	0.00094241
{'p0_01' }	100.12	19	0	0	0	0.00014919
{'p10' }	111.58	27	0	0	0	0.044936
{'p25' }	131.56	31	0	0	0	0.049674

{'p50' }	168.57	36	0	66.249	136.58	0.078047
{'p75' }	308.55	42	1	290.28	315.87	0.93294
{'p90' }	457.63	48	1	529.99	579.57	0.93321
{'p99_99' }	1830.5	64	1	6602.5	6941.2	0.99992
{'fl_cov_y_all' }	26495	159.42	10.978	11088	22560	-18.501
{'fl_cor_y_all' }	1	0.12218	0.13903	0.21379	0.4198	-0.28756
{'fl_cov_age_ss' }	159.42	64.254	0.83055	1188	1237.3	-1.2983
{'fl_cor_age_ss' }	0.12218	1	0.21359	0.46513	0.46753	-0.40977
{'fl_cov_educ_ss' }	10.978	0.83055	0.23532	35.619	35.688	-0.02654
{'fl_cor_educ_ss' }	0.13903	0.21359	1	0.23045	0.22283	-0.13842
{'fl_cov_a_ss' }	11088	1188	35.619	1.0152e+05	1.0072e+05	-55.963
{'fl_cor_a_ss' }	0.21379	0.46513	0.23045	1	0.95744	-0.44437
{'fl_cov_ap_ss' }	22560	1237.3	35.688	1.0072e+05	1.09e+05	-65.738
{'fl_cor_ap_ss' }	0.4198	0.46753	0.22283	0.95744	1	-0.50377
{'fl_cov_MPC' }	-18.501	-1.2983	-0.02654	-55.963	-65.738	0.15623
{'fl_cor_MPC' }	-0.28756	-0.40977	-0.13842	-0.44437	-0.50377	1
{'fl_cov_Mass' }	-0.0022664	-0.00010749	-5.0538e-06	-0.0043915	-0.0051597	1.2362e-05
{'fl_cor_Mass' }	-0.33362	-0.3213	-0.24962	-0.33023	-0.37446	0.74935
{'fl_cov_c_ss' }	8282.7	69.697	8.1184	9060.7	8527.9	-4.0294
{'fl_cor_c_ss' }	0.62132	0.10617	0.20435	0.34722	0.3154	-0.12448
{'fl_cov_y_head_inc' }	11340	134.44	9.2289	13201	11965	-0.40366
{'fl_cor_y_head_inc' }	0.57163	0.13761	0.15609	0.33992	0.29736	-0.0083793
{'fl_cov_y_spouse' }	15155	24.98	1.7489	-2112.5	10594	-18.097
{'fl_cor_y_spouse' }	0.6814	0.022808	0.026386	-0.048525	0.23486	-0.33509
{'fl_cov_yshr_nttxss'}	1.7985	0.013965	0.00080312	0.49826	1.296	-0.0014693
{'fl_cor_yshr_nttxss'}	0.87877	0.13856	0.13168	0.12437	0.31223	-0.29567
{'fracByP0_01' }	8.0591e-05	0.00056356	0	0	0	2.107e-08
{'fracByP10' }	0.045658	0.085426	0	0	0	0.011596
{'fracByP25' }	0.12433	0.21802	0	0	0	0.032
{'fracByP50' }	0.27402	0.43087	0	0.02168	0.046552	0.074273
{'fracByP75' }	0.50919	0.69113	1	0.28261	0.29439	0.33371
{'fracByP90' }	0.74432	0.8764	1	0.55039	0.57851	0.73604
{'fracByP99_99' }	0.99921	1	1	0.99623	0.99647	1

Store Aggregate To File

Store Several Files:

1. Overall Aggregate Statistics All Distribution
2. Aggregate Statistics Only for 18 to 64 year olds
3. Group Statistics by Kids
4. Group Statistics by Marital + Kids
5. Group Statistics by Marital + Kids + Income Bins

```
if (bl_save_csv)
    % All Stats All Ages
    mp_path = snw_mp_path('fan');
    spt_simu_results_csv = mp_path('spt_simu_results_csv');
    writetable(tb_dist_stats_all, [spt_simu_results_csv 'stats_all_allages.csv'], 'WriteRowName
    % All Stats 18 to 64 Year old
    mp_path = snw_mp_path('fan');
    spt_simu_results_csv = mp_path('spt_simu_results_csv');
    writetable(tb_dist_stats_all_18to64, [spt_simu_results_csv 'stats_all_18t64.csv'], 'WriteRo
    % Group by K: Kids only
    tb_store_stats_by_k = array2table(mt_store_stats_by_k, 'VariableNames', ...
        {'kids', 'married_mean' ...
        'age_mean', 'age_p50', 'educ_mean', ...
        'a_mean', 'a_p50', 'ap_mean', 'ap_p50', ...
```

```
        'y_all_mean', 'y_all_p50', ...
        'mpc_mean', 'mpc_p50', ...
        'mass',...
        'c_ss_mean', 'c_ss_p50', ...
        'y_head_inc_mean', 'y_spouse_mean'});
    mp_path = snw_mp_path('fan');
    spt_simu_results_csv = mp_path('spt_simu_results_csv');
    writetable(tb_store_stats_by_k, [spt_simu_results_csv 'stats_by_kids.csv']);
    % Group by MK: marry + kids only
    tb_store_stats_by_mk = array2table(mt_store_stats_by_mk, 'VariableNames', ...
        {'marital', 'kids', ...
        'age_mean', 'age_p50', 'educ_mean', ...
        'a_mean', 'a_p50', 'ap_mean', 'ap_p50', ...
        'y_all_mean', 'y_all_p50', ...
        'mpc_mean', 'mpc_p50', ...
        'mass',...
        'c_ss_mean', 'c_ss_p50', ...
        'y_head_inc_mean', 'y_spouse_mean'});
    mp_path = snw_mp_path('fan');
    spt_simu_results_csv = mp_path('spt_simu_results_csv');
    writetable(tb_store_stats_by_mk, [spt_simu_results_csv 'stats_by_marital_kids.csv']);
    % Group by MKY
    tb_store_stats_by_mky = array2table(mt_store_stats_by_mky, 'VariableNames', ...
        {'marital', 'kids', 'y_all_start', 'y_all_end', ...
        'age_mean', 'age_p50', 'educ_mean', ...
        'a_mean', 'a_p50', 'ap_mean', 'ap_p50', ...
        'y_all_mean', 'y_all_p50', ...
        'mpc_mean', 'mpc_p50', ...
        'mass',...
        'c_ss_mean', 'c_ss_p50', ...
        'y_head_inc_mean', 'y_spouse_mean'});
    mp_path = snw_mp_path('fan');
    spt_simu_results_csv = mp_path('spt_simu_results_csv');
    writetable(tb_store_stats_by_mky, [spt_simu_results_csv 'stats_by_marital_kids_20kincbins.c
end
```

Store Key Stats to Compare to Key US Distributional Statistics

Earning, income and Wealth.

Income = interest earnings + Social Security + labor income + spousal income. This is equal to y_all.

Earnings = labor income + spousal income.

```
% Income Variable
if (min(abs(total_inc_VFI*58.056 - y_all), [], 'all')>0)
    error('someothing is wrong, total_inc_VFI should be equal to y_all');
end
income = y_all;
% Earning variable
% earn*fl_earn_ratio generated earn_VFI
earning = (mp_valpol_more_ss('earn_VFI') + spouse_inc_VFI)*58.056;
% Wealth Varaible
wealth = a_ss;
```

Generate Key Statistics for these three variables only, distributional Statistics Overall All Ages:

```
% construct input data
income_grp = income(min_age:82, :, :, : ,: ,:);
earning_grp = earning(min_age:82, :, :, : ,: ,:);
wealth_grp = wealth(min_age:82, :, :, : ,: ,:);
Phi_true_grp = Phi_true_1(min_age:82, :, :, : ,: ,:);

mp_cl_ar_xyz_of_s = containers.Map('KeyType','char', 'ValueType','any');
mp_cl_ar_xyz_of_s('earning') = {earning_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('income') = {income_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('wealth') = {wealth_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('earninglog') = {log(earning_grp(:)), zeros(1)};
mp_cl_ar_xyz_of_s('incomelog') = {log(income_grp(:)), zeros(1)};
mp_cl_ar_xyz_of_s('wealthlog') = {log(wealth_grp(:)), zeros(1)};
mp_cl_ar_xyz_of_s('ar_st_y_name') = ["earning", "income", "wealth", "earninglog", "incomelog",

% controls
mp_support = containers.Map('KeyType','char', 'ValueType','any');
mp_support('ar_fl_percentiles') = [20 30 40 60 50 80 90 95 99];
mp_support('bl_display_final') = true;
mp_support('bl_display_detail') = false;
mp_support('bl_display_drvm2outcomes') = false;
mp_support('bl_display_drvstats') = false;
mp_support('bl_display_drvm2covcor') = false;

% Call Function
mp_cl_mt_xyz_of_s = ff_simu_stats(Phi_true_grp(:)/sum(Phi_true_grp,'all'), mp_cl_ar_xyz_of_s, m
```

```
xxx tb_outcomes: all stats xxx
    OriginalVariableNames      earning        income        wealth       earninglog      incomelog      wealthlog
    _____________________      _______        ______        ______       __________      _________      _________

    {'mean'              }        88.509        103.28        293.66          -Inf          4.1225          -Inf
    {'unweighted_sum'    }     4.1785e+06     2.8141e+08    1.0976e+05         -Inf       3.4668e+06         -Inf
    {'sd'                }        136.77        142.41        553.53           NaN         0.97596          NaN
    {'coefofvar'         }        1.5453        1.3788        1.8849           NaN         0.23674          NaN
    {'gini'              }       0.60764       0.53598       0.75241           NaN         0.13297          NaN
    {'min'               }             0        2.2124             0          -Inf         0.79408          -Inf
    {'max'               }          2640        2953.5        7837.6        7.8785          7.9907        8.9667
    {'pYis0'             }       0.10578             0       0.24932             0               0             0
    {'pYls0'             }             0             0             0       0.11218               0       0.30265
    {'pYgr0'             }       0.89422             1       0.75068       0.88782               1       0.69735
    {'pYisMINY'          }       0.10578     7.0001e-05       0.24932       0.10578      7.0001e-05       0.24932
    {'pYisMAXY'          }     2.3633e-07     2.1698e-08    0.00029723     2.3633e-07     2.1698e-08    0.00029723
    {'p20'               }        13.401        25.796             0        2.5953          3.2502          -Inf
    {'p30'               }        21.341        36.914       0.39819        3.0606          3.6086       -0.92083
    {'p40'               }         37.85        48.749        10.751        3.6336          3.8867         2.375
    {'p60'               }        62.705        76.041        136.58        4.1384          4.3313        4.9169
    {'p50'               }        50.071         57.79        49.774        3.9134          4.0568        3.9075
    {'p80'               }        123.59        136.34        460.95         4.817          4.9151        6.1333
    {'p90'               }        182.31        211.99        874.82        5.2057          5.3565         6.774
    {'p95'               }         318.5        352.98        1343.9        5.7636          5.8664        7.2033
    {'p99'               }        758.96         785.9        2521.2        6.6319          6.6668        7.8325
    {'fl_cov_earning'    }         18707         19199         17930           NaN          102.07          NaN
    {'fl_cor_earning'    }             1       0.98569       0.23684           NaN         0.76463          NaN
    {'fl_cov_income'     }         19199         20281         30965           NaN          109.55          NaN
```

```
    {'fl_cor_income'    }       0.98569            1       0.39281          NaN       0.78821          NaN
    {'fl_cov_wealth'    }         17930        30965     3.0639e+05          NaN         226.4          NaN
    {'fl_cor_wealth'    }       0.23684       0.39281             1          NaN       0.41908          NaN
    {'fl_cov_earninglog'}           NaN           NaN           NaN          NaN           NaN          NaN
    {'fl_cor_earninglog'}           NaN           NaN           NaN          NaN           NaN          NaN
    {'fl_cov_incomelog' }        102.07        109.55         226.4          NaN       0.95251          NaN
    {'fl_cor_incomelog' }       0.76463       0.78821       0.41908          NaN             1          NaN
    {'fl_cov_wealthlog' }           NaN           NaN           NaN          NaN           NaN          NaN
    {'fl_cor_wealthlog' }           NaN           NaN           NaN          NaN           NaN          NaN
    {'fracByP20'        }     0.0098271      0.034067             0          NaN       0.13717          NaN
    {'fracByP30'        }      0.029891      0.064173     5.3274e-05          NaN       0.21927          NaN
    {'fracByP40'        }      0.064427       0.10662      0.0020247          NaN       0.31182          NaN
    {'fracByP60'        }       0.17471       0.22111       0.043871          NaN       0.50837          NaN
    {'fracByP50'        }       0.11392       0.15748       0.011768          NaN       0.40689          NaN
    {'fracByP80'        }       0.37593       0.41771        0.24024          NaN       0.73181          NaN
    {'fracByP90'        }       0.54257       0.57868        0.48239          NaN       0.85559          NaN
    {'fracByP95'        }       0.68151       0.70839        0.67227          NaN       0.92322          NaN
    {'fracByP99'        }       0.89166       0.90207        0.88754          NaN       0.98327          NaN
```

```
tb_dist_stats_all = mp_cl_mt_xyz_of_s('tb_outcomes');
% Select columns
tb_dist_stats_all_save = tb_dist_stats_all(1:3,:);
ar_st_columns = ["coefofvar", "gini", "varianceoflog", ...
     "p99p50ratio", "p90p50ratio", "meantomedian", "p50p30ratio", ...
     "fracP0toP20", "fracP20toP40", "fracP40toP60", "fracP60toP80", "fracP80toP100", ...
     "fracP90toP95", "fracP95toP99", "fracP99toP100"];

varianceoflog = tb_dist_stats_all{4:6,"sd"}.^2;

p99p50ratio = tb_dist_stats_all_save{:,"p99"}./tb_dist_stats_all_save{:,"p50"};
p90p50ratio = tb_dist_stats_all_save{:,"p90"}./tb_dist_stats_all_save{:,"p50"};
meantomedian = tb_dist_stats_all_save{:,"mean"}./tb_dist_stats_all_save{:,"p50"};
p50p30ratio = tb_dist_stats_all_save{:,"p50"}./tb_dist_stats_all_save{:,"p30"};
fracP0toP20 = tb_dist_stats_all_save{:,"fracByP20"};
fracP20toP40 = tb_dist_stats_all_save{:,"fracByP40"} - tb_dist_stats_all_save{:,"fracByP20"};
fracP40toP60 = tb_dist_stats_all_save{:,"fracByP60"} - tb_dist_stats_all_save{:,"fracByP40"};
fracP60toP80 = tb_dist_stats_all_save{:,"fracByP80"} - tb_dist_stats_all_save{:,"fracByP60"};
fracP80toP100 = 1 - tb_dist_stats_all_save{:,"fracByP80"};

fracP90toP95 = tb_dist_stats_all_save{:,"fracByP95"} - tb_dist_stats_all_save{:,"fracByP90"};
fracP95toP99 = tb_dist_stats_all_save{:,"fracByP99"} - tb_dist_stats_all_save{:,"fracByP95"};
fracP99toP100 = 1 - tb_dist_stats_all_save{:,"fracByP99"};

tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, varianceoflog, 'Before', 'gini');
tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, p99p50ratio);
tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, p90p50ratio);
tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, meantomedian);
tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, p50p30ratio);
tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, fracP0toP20);
tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, fracP20toP40);
tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, fracP40toP60);
tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, fracP60toP80);
tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, fracP80toP100);

tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, fracP90toP95);
tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, fracP95toP99);
tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, fracP99toP100);
```

```
disp(tb_dist_stats_all_save(:, ar_st_columns));
```

	coefofvar	gini	varianceoflog	p99p50ratio	p90p50ratio	meantomedian	p50p30ratio
earning	1.5453	0.60764	NaN	15.158	3.641	1.7677	2.3463
income	1.3788	0.53598	0.95251	13.599	3.6683	1.7872	1.5655
wealth	1.8849	0.75241	NaN	50.653	17.576	5.8999	125

```
% Core Stats Table
if (bl_save_csv)
    mp_path = snw_mp_path('fan');
    spt_simu_results_csv = mp_path('spt_simu_results_csv');
    writetable(tb_dist_stats_all_save(:, ar_st_columns), [spt_simu_results_csv 'stats_all_allag
end
```

Statistics overall distributionally for 18 to 64 year olds.

```
% construct input data
income_grp = income(min_age:max_age, :, :, : ,: ,:);
earning_grp = earning(min_age:max_age, :, :, : ,: ,:);
wealth_grp = wealth(min_age:max_age, :, :, : ,: ,:);
Phi_true_grp = Phi_true_1(min_age:max_age, :, :, : ,: ,:);

mp_cl_ar_xyz_of_s = containers.Map('KeyType','char', 'ValueType','any');
mp_cl_ar_xyz_of_s('income') = {income_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('earning') = {earning_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('wealth') = {wealth_grp(:), zeros(1)};
mp_cl_ar_xyz_of_s('earninglog') = {log(earning_grp(:)), zeros(1)};
mp_cl_ar_xyz_of_s('incomelog') = {log(income_grp(:)), zeros(1)};
mp_cl_ar_xyz_of_s('wealthlog') = {log(wealth_grp(:)), zeros(1)};
mp_cl_ar_xyz_of_s('ar_st_y_name') = ["earning", "income", "wealth", "earninglog", "incomelog",

% controls
mp_support = containers.Map('KeyType','char', 'ValueType','any');
mp_support('ar_fl_percentiles') = [20 30 40 60 50 80 90 95 99];
mp_support('bl_display_final') = true;
mp_support('bl_display_detail') = false;
mp_support('bl_display_drvm2outcomes') = false;
mp_support('bl_display_drvstats') = false;
mp_support('bl_display_drvm2covcor') = false;

% Call Function
mp_cl_mt_xyz_of_s = ff_simu_stats(Phi_true_grp(:)/sum(Phi_true_grp,'all'), mp_cl_ar_xyz_of_s, m
```

```
xxx tb_outcomes: all stats xxx
```

OriginalVariableNames	earning	income	wealth	earninglog	incomelog	wealthlog
{'mean' }	107.22	116.12	222.3	4.178	4.2532	-Inf
{'unweighted_sum' }	4.0087e+06	2.6557e+08	1.0976e+05	51117	3.1266e+06	-Inf
{'sd' }	145.05	153.3	469.68	0.96353	0.98332	NaN
{'coefofvar' }	1.3528	1.3202	2.1128	0.23062	0.2312	NaN
{'gini' }	0.52542	0.52475	0.79347	0.12822	0.12916	NaN
{'min' }	2.2124	2.2124	0	0.79408	0.79408	-Inf
{'max' }	2640	2953.5	7837.6	7.8785	7.9907	8.9667

{'pYis0' }	0	0	0.29808	0	0	0
{'pYls0' }	0	0	0	0	0	0.36307
{'pYgr0' }	1	1	0.70192	1	1	0.63693
{'pYisMINY' }	0.00023343	8.901e-05	0.29808	0.00023343	8.901e-05	0.29808
{'pYisMAXY' }	3.0051e-07	2.759e-08	0.00029833	3.0051e-07	2.759e-08	0.00029833
{'p20' }	30.407	32.815	0	3.4147	3.4909	-Inf
{'p30' }	43.231	45.518	0.049774	3.7665	3.8181	-3.0003
{'p40' }	51.241	54.691	1.3439	3.9365	4.0017	0.29557
{'p60' }	78.796	86.982	66.249	4.3669	4.4657	4.1934
{'p50' }	60.486	68.425	10.751	4.1024	4.2257	2.375
{'p80' }	130.03	148.81	341.4	4.8677	5.0027	5.833
{'p90' }	214.48	234.18	688.07	5.3682	5.4561	6.5339
{'p95' }	350.37	385.86	1092.6	5.859	5.9555	6.9963
{'p99' }	806.52	845.16	2134	6.6927	6.7395	7.6658
{'fl_cov_earning' }	21041	22094	26333	109.99	109.76	NaN
{'fl_cor_earning' }	1	0.99359	0.38652	0.78695	0.76951	NaN
{'fl_cov_income' }	22094	23500	35157	117.08	118.46	NaN
{'fl_cor_income' }	0.99359	1	0.48829	0.79264	0.78587	NaN
{'fl_cov_wealth' }	26333	35157	2.206e+05	177.27	217.62	NaN
{'fl_cor_wealth' }	0.38652	0.48829	1	0.39173	0.4712	NaN
{'fl_cov_earninglog'}	109.99	117.08	177.27	0.92838	0.93902	NaN
{'fl_cor_earninglog'}	0.78695	0.79264	0.39173	1	0.9911	NaN
{'fl_cov_incomelog' }	109.76	118.46	217.62	0.93902	0.96691	NaN
{'fl_cor_incomelog' }	0.76951	0.78587	0.4712	0.9911	1	NaN
{'fl_cov_wealthlog' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fl_cor_wealthlog' }	NaN	NaN	NaN	NaN	NaN	NaN
{'fracByP20' }	0.035427	0.034352	0	0.1369	0.13727	NaN
{'fracByP30' }	0.070542	0.06732	4.3276e-06	0.22479	0.22174	NaN
{'fracByP40' }	0.11524	0.11059	0.00037521	0.31756	0.31356	NaN
{'fracByP60' }	0.23029	0.22957	0.021622	0.51285	0.51232	NaN
{'fracByP50' }	0.16442	0.1622	0.0030006	0.41105	0.4097	NaN
{'fracByP80' }	0.42812	0.42963	0.19755	0.73643	0.73538	NaN
{'fracByP90' }	0.58049	0.58777	0.42895	0.85674	0.85752	NaN
{'fracByP95' }	0.70954	0.7173	0.62864	0.92382	0.92446	NaN
{'fracByP99' }	0.90615	0.90867	0.87259	0.98349	0.98366	NaN

```
tb_dist_stats_all = mp_cl_mt_xyz_of_s('tb_outcomes');
% Select columns
tb_dist_stats_all_save = tb_dist_stats_all(1:3,:);
ar_st_columns = ["coefofvar", "gini", "varianceoflog", ...
     "p99p50ratio", "p90p50ratio", "meantomedian", "p50p30ratio", ...
     "fracP0toP20", "fracP20toP40", "fracP40toP60", "fracP60toP80", "fracP80toP100", ...
     "fracP90toP95", "fracP95toP99", "fracP99toP100"];

varianceoflog = tb_dist_stats_all{4:6,"sd"}.^2;

p99p50ratio = tb_dist_stats_all_save{:,"p99"}./tb_dist_stats_all_save{:,"p50"};
p90p50ratio = tb_dist_stats_all_save{:,"p90"}./tb_dist_stats_all_save{:,"p50"};
meantomedian = tb_dist_stats_all_save{:,"mean"}./tb_dist_stats_all_save{:,"p50"};
p50p30ratio = tb_dist_stats_all_save{:,"p50"}./tb_dist_stats_all_save{:,"p30"};
fracP0toP20 = tb_dist_stats_all_save{:,"fracByP20"};
fracP20toP40 = tb_dist_stats_all_save{:,"fracByP40"} - tb_dist_stats_all_save{:,"fracByP20"};
fracP40toP60 = tb_dist_stats_all_save{:,"fracByP60"} - tb_dist_stats_all_save{:,"fracByP40"};
fracP60toP80 = tb_dist_stats_all_save{:,"fracByP80"} - tb_dist_stats_all_save{:,"fracByP60"};
fracP80toP100 = 1 - tb_dist_stats_all_save{:,"fracByP80"};

fracP90toP95 = tb_dist_stats_all_save{:,"fracByP95"} - tb_dist_stats_all_save{:,"fracByP90"};
fracP95toP99 = tb_dist_stats_all_save{:,"fracByP99"} - tb_dist_stats_all_save{:,"fracByP95"};
fracP99toP100 = 1 - tb_dist_stats_all_save{:,"fracByP99"};
```

```
tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, varianceoflog, 'Before', 'gini');
tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, p99p50ratio);
tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, p90p50ratio);
tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, meantomedian);
tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, p50p30ratio);
tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, fracP0toP20);
tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, fracP20toP40);
tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, fracP40toP60);
tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, fracP60toP80);
tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, fracP80toP100);

tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, fracP90toP95);
tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, fracP95toP99);
tb_dist_stats_all_save = addvars(tb_dist_stats_all_save, fracP99toP100);
disp(tb_dist_stats_all_save(:, ar_st_columns));
```

	coefofvar	gini	varianceoflog	p99p50ratio	p90p50ratio	meantomedian	p50p30ratio
earning	1.3528	0.52542	0.92838	13.334	3.546	1.7727	1.3991
income	1.3202	0.52475	0.96691	12.352	3.4224	1.697	1.5033
wealth	2.1128	0.79347	NaN	198.5	64	20.677	216

```
% Core Stats Table
if (bl_save_csv)
    mp_path = snw_mp_path('fan');
    spt_simu_results_csv = mp_path('spt_simu_results_csv');
    writetable(tb_dist_stats_all_save(:, ar_st_columns), [spt_simu_results_csv 'stats_all_18t64
end
```