```
  ___  ____  ____  ____  ____ (R)
 /__    /   ____/   /   ____/
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       Serial number:  10699393
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                       University of Illinois at Urbana-Champaign

Notes:
      1.  Unicode is supported; see help unicode_advice.
      2.  More than 2 billion observations are allowed; see help obs_advice.
      3.  Maximum number of variables is set to 5000; see help set_maxvar.

 1 . doedit "C:\Users\Bobby W. Chung\OneDrive\Project E\Project\Occupational License\Archive\Table4_

 2 . do "C:\Users\Bobby W. Chung\OneDrive\Project E\Project\Occupational License\Archive\Table4_Pane

 3 . ***User should have five .dta files ready including:
 4 . *Core file from Wave 13-16 (wave13-16_FULL.dta)
 5 . *License file from the Topcial module in Wave 13 (Module.dta)
 6 . *Data defining ban and non-ban licensing (mandatory_unique.dta)
 7 . *incarceration disparity in race in 2014 (disparity2014.dta)
 8 . *skill indexes from O*NET (Skills(importance).dta)
 9 .
10 . ***Line 10 to line 327 are all about data cleaning
11 . ***User should start with the core file and run the folloing code
12 . set matsize 1500

13 . clear

14 .
15 . use "C:\Users\Bobby W. Chung\Desktop\SIPPdata\wave13-16_FULL.dta"

16 . keep if swave==13
(791,221 observations deleted)

17 .
18 . *****Merge with license
19 . merge m:1 lgtkey using "C:\Users\Bobby W. Chung\Desktop\SIPPdata\Module.dta", generate(_license

    Result                           # of obs.
    -----------------------------------------
    not matched                       1,814
        from master                   1,814  (_licensemerge==1)
        from using                        0  (_licensemerge==2)

    matched                         302,379  (_licensemerge==3)
    -----------------------------------------
```

```
20 .
21 .
22 . merge m:1 lgtkey using "C:\Users\Bobby W. Chung\Desktop\SIPPdata\Wave2_topical", generate(edume

    Result                           # of obs.
    -----------------------------------------
    not matched                        83,448
        from master                    48,966  (edumerge==1)
        from using                     34,482  (edumerge==2)

    matched                           255,227  (edumerge==3)
    -----------------------------------------

23 . drop if edumerge==2
(34,482 observations deleted)

24 . gen math=0

25 . replace math=1 if ecourse1==1
(102,291 real changes made)

26 . gen sci=0

27 . replace sci=1 if ecourse2==1
(99,592 real changes made)

28 . gen eng=0

29 . replace eng=1 if ecourse3==1
(148,508 real changes made)

30 . ******************************Data Management**********************
31 . drop if tage<18
(71,482 observations deleted)

32 . drop if tage >64
(49,165 observations deleted)

33 .
34 . * Work hour<1
35 . drop if ejbhrs1<1
(77,858 observations deleted)

36 .
37 .
38 . *delege useless license data
39 . drop if  iprocert <1
(9,461 observations deleted)

40 .
41 . *Delete imptued license
```

```
42 . drop if iwhopcer <0
   (366 observations deleted)

43 .
44 . * Define demographic
45 . generate female =1

46 . replace female =0 if esex==1
   (47,801 real changes made)

47 . drop if female==1
   (48,060 observations deleted)

48 .
49 . generate black=0

50 . replace black=1 if erace==2
   (4,325 real changes made)

51 .
52 . generate hispanic=0

53 . replace hispanic=1 if eorigin==1 & black==0
   (6,187 real changes made)

54 .
55 . *Create hourly wage
56 . generate long wage = (tpmsum1)/4/ejbhrs1

57 . drop if wage>100
   (685 observations deleted)

58 . drop if wage<5
   (4,047 observations deleted)

59 . gen lwage =log(wage)

60 . generate union=1

61 . replace union=0 if eunion1==2
   (37,332 real changes made)

62 .
63 . *Delete imputed union data
64 . drop if eunion1 <0
   (4 observations deleted)

65 .
66 . *Drop race other than white and black
67 . gen other=0
```

```
68 . replace other=1 if erace>2
   (3,246 real changes made)

69 .
70 . ***Merging with Module data of license (skip)
71 . ***Create license dummy (skip)
72 .
73 . *Delete imputed licensure source
74 . drop if iwhopcer <0
   (0 observations deleted)

75 .
76 .
77 . *Create gov't summy
78 . generate govt=0

79 . replace govt=1 if inrange(eclwrk1, 3,5)
   (6,683 real changes made)

80 .
81 . *service worker?
82 . gen service=0

83 . replace service=1 if inrange(ejbind1,6870,9290)
   (17,093 real changes made)

84 .
85 . *Create education dummy
86 . generate hs =0

87 . replace hs=1 if eeducate==39
   (11,397 real changes made)

88 . generate somecollege =0

89 . replace somecollege=1 if inrange(eeducate,40,43)
   (14,748 real changes made)

90 . generate college=0

91 . replace college=1 if eeducate ==44
   (9,228 real changes made)

92 . generate postgrad=0

93 . replace postgrad=1 if eeducate >44
   (4,531 real changes made)

94 .
95 . *Create self-employment and big company dummy
96 . generate self_emp=1
```

```
 97 . replace self_emp=0 if ebuscntr<0
    (41,861 real changes made)

 98 .
 99 . gen age2=tage*tage

100 . rename tage age

101 .
102 .
103 . *Ensure that the license variable does not contain certified
104 . replace license=0 if cert==1
    (3,847 real changes made)

105 .
106 . *Ensure the license indicator include only license being required by job
107 . gen licensenorequire=0

108 . replace licensenorequire=1 if irjpcert!=1 & license==1
    (1,298 real changes made)

109 . replace license=0 if irjpcert>1
    (1,637 real changes made)

110 .
111 .
112 . ************** Redefine licensing by 50/50 rule
113 . egen licensecheck=mean(license), by(tfipsst tjbocc1)

114 . replace license=0 if licensecheck<0.5
    (1,845 real changes made)

115 . replace license=1 if licensecheck>=0.5
    (1,245 real changes made)

116 .
117 .
118 .                 *Merge with ban data
119 .         gen state_occ=string(tfipsst)+"-"+string(tjbocc1) if license==1
    (38,163 missing values generated)

120 .
121 .         merge m:1 state_occ using "C:\Users\Bobby W. Chung\OneDrive\Project E\Project\Occupatio
    > ate(_felonymerge)

        Result                           # of obs.
        -----------------------------------------
        not matched                        43,249
            from master                    41,014  (_felonymerge==1)
            from using                      2,235  (_felonymerge==2)

        matched                             2,051  (_felonymerge==3)
        -----------------------------------------
```

```
122 .
123 .         drop if _felonymerge==2
    (2,235 observations deleted)

124 .         replace permban=0 if _felonymerge==1
    (41,014 real changes made)

125 .         replace felony=0 if _felonymerge==1
    (41,014 real changes made)

126 .
127 .         rename permban Ban

128 .
129 .         ***"permban" only contains permanent ban
130 .         ***"felony" contains both temporary and permanent ban
131 .
132 .         keep if apmsum1==0 & inrange(wage,5,100)
    (4,893 observations deleted)

133 .
134 .
135 .         gen person=0

136 .         replace person=1 if iwhypcer==2
    (397 real changes made)

137 .
138 .         ***************** Race selection
139 .         drop if other==1
    (2,928 observations deleted)

140 .         drop if hispanic==1 & black==0
    (4,908 observations deleted)

141 .
142 .
143 .         **********************************
144 .         **** Main Table
145 .         **********************************
146 .         replace quality=100 if missing(quality)
    (28,786 real changes made)

147 .
148 .         local controls  age age2  hs somecollege college postgrad union govt self_em service

149 .         *quality
150 .         *eng math sci person
151 .
152 .         **Add [pweight=wpfinwgt] for weighted OLS
153 .
```

```
154 .
155 .         gen boxyes=0

156 .         replace boxyes=1 if inlist(tfipsst,6,8,9,11,15,25,27,35)
    (4,716 real changes made)

157 .
158 .         gen BTBban=Ban*boxyes

159 .         replace Ban=0 if BTBban==1
    (246 real changes made)

160 .         gen nonBTBban=Ban

161 .
162 .
163 .         gen con_edu=0

164 . replace con_edu=1 if icdpcert==1
    (5,178 real changes made)

165 .
166 .
167 .         **** All license
168 .
169 . quietly areg lwage black  license cert licensenorequire  `controls' i.tfipsst  i.rhcalmn if apm
    > st) absorb(tjbocc1)

170 .         psacalc delta  license, beta(0) rmax(0.61)
```

	——— Bound Estimate ———
delta	**1.98528**

	——— Inputs from Regressions ———	
	Coeff.	R-Squared
Uncontrolled	**0.17752**	**0.010**
Controlled	**0.04483**	**0.560**

	——— Other Inputs ———
R_max	0.610
Beta	0.000000
Unr. Controls	

```
171 .         psacalc delta  license, beta(0) rmax(0.72)
```

	——— Bound Estimate ———
delta	**0.62282**

	——— Inputs from Regressions ———	
	Coeff.	R-Squared
Uncontrolled	**0.17752**	**0.010**
Controlled	**0.04483**	**0.560**

```
                ——— Other Inputs ———
————————————————————————————————————————————————————————————————————————————
R_max           | 0.720
Beta            |  0.000000
Unr. Controls   |
————————————————————————————————————————————————————————————————————————————

172 .         psacalc delta  license, beta(0) rmax(1)

                ——— Bound Estimate ———
————————————————————————————————————————————————————————————————————————————
delta           |     0.22674
————————————————————————————————————————————————————————————————————————————

                ——— Inputs from Regressions ———
                |    Coeff.                     R-Squared
————————————————————————————————————————————————————————————————————————————
Uncontrolled    |      0.17752                  0.010
Controlled      |      0.04483                  0.560
————————————————————————————————————————————————————————————————————————————

                ——— Other Inputs ———
————————————————————————————————————————————————————————————————————————————
R_max           | 1.000
Beta            |  0.000000
Unr. Controls   |
————————————————————————————————————————————————————————————————————————————

173 .
174 .
175 .         *************** BY race
176 . quietly areg lwage license cert licensenorequire  `controls' i.tfipsst  i.rhcalmn if apmsum1==0
    > fipsst) absorb(tjbocc1)

177 .         psacalc delta  license, beta(0) rmax(0.61)

                ——— Bound Estimate ———
————————————————————————————————————————————————————————————————————————————
delta           |     1.92048
————————————————————————————————————————————————————————————————————————————

                ——— Inputs from Regressions ———
                |    Coeff.                     R-Squared
————————————————————————————————————————————————————————————————————————————
Uncontrolled    |      0.15110                  0.008
Controlled      |      0.03941                  0.558
————————————————————————————————————————————————————————————————————————————

                ——— Other Inputs ———
————————————————————————————————————————————————————————————————————————————
R_max           | 0.610
Beta            |  0.000000
Unr. Controls   |
————————————————————————————————————————————————————————————————————————————
```

```
178 .         psacalc delta  license, beta(0) rmax(0.72)
```

	——— Bound Estimate ———
delta	**0.62244**

	——— Inputs from Regressions ———	
	Coeff.	R-Squared
Uncontrolled	**0.15110**	**0.008**
Controlled	**0.03941**	**0.558**

	——— Other Inputs ———
R_max	0.720
Beta	0.000000
Unr. Controls	

```
179 .         psacalc delta  license, beta(0) rmax(1)
```

	——— Bound Estimate ———
delta	**0.22880**

	——— Inputs from Regressions ———	
	Coeff.	R-Squared
Uncontrolled	**0.15110**	**0.008**
Controlled	**0.03941**	**0.558**

	——— Other Inputs ———
R_max	1.000
Beta	0.000000
Unr. Controls	

```
180 .
181 . quietly areg lwage license cert licensenorequire  `controls' i.tfipsst  i.rhcalmn if apmsum1==0
    > fipsst) absorb(tjbocc1)

182 .         psacalc delta  license, beta(0) rmax(0.75)
```

	——— Bound Estimate ———
delta	**3.05947**

	——— Inputs from Regressions ———	
	Coeff.	R-Squared
Uncontrolled	**0.28021**	**0.015**
Controlled	**0.15894**	**0.685**

	——— Other Inputs ———
R_max	0.750
Beta	0.000000
Unr. Controls	

```
183 .         psacalc delta  license, beta(0) rmax(0.89)
```

	——— Bound Estimate ———
delta	**0.98627**

	——— Inputs from Regressions ———	
	Coeff.	R-Squared
Uncontrolled	**0.28021**	**0.015**
Controlled	**0.15894**	**0.685**

	——— Other Inputs ———
R_max	0.890
Beta	0.000000
Unr. Controls	

```
184 .         psacalc delta  license, beta(0) rmax(1)
```

	——— Bound Estimate ———
delta	**0.64360**

	——— Inputs from Regressions ———	
	Coeff.	R-Squared
Uncontrolled	**0.28021**	**0.015**
Controlled	**0.15894**	**0.685**

	——— Other Inputs ———
R_max	1.000
Beta	0.000000
Unr. Controls	

```
185 .
186 .
```

```
187 .
    end of do-file

188 . do "C:\Users\Bobby W. Chung\OneDrive\Project E\Project\Occupational License\Archive\Table4_Pane

189 . ***User should have three .dta files ready including:
190 . *Core file from Wave 13-16 (wave13-16_FULL.dta)
191 . *License file from the Topcial module in Wave 13 (Module.dta)
192 . *Data defining ban and non-ban licensing (mandatory_unique.dta)
193 . *Wave 2 that contains history of advanced courses taken (Wave2_topical.dta)
194 .
195 .
196 . ***Line 10 to line 327 are all about data cleaning
197 . ***User should start with the core file and run the folloing code
198 . set matsize 1500

199 . clear

200 .
201 . use "C:\Users\Bobby W. Chung\Desktop\SIPPdata\wave13-16_FULL.dta"

202 . keep if swave==13
    (791,221 observations deleted)

203 .
204 . *****Merge with license
205 . merge m:1 lgtkey using "C:\Users\Bobby W. Chung\Desktop\SIPPdata\Module.dta", generate(_license

        Result                           # of obs.
        -----------------------------------------
        not matched                       1,814
            from master                   1,814  (_licensemerge==1)
            from using                        0  (_licensemerge==2)

        matched                         302,379  (_licensemerge==3)
        -----------------------------------------

206 .
207 .
208 . merge m:1 lgtkey using "C:\Users\Bobby W. Chung\Desktop\SIPPdata\Wave2_topical", generate(edume

        Result                           # of obs.
        -----------------------------------------
        not matched                      83,448
            from master                  48,966  (edumerge==1)
            from using                   34,482  (edumerge==2)

        matched                         255,227  (edumerge==3)
        -----------------------------------------

209 . drop if edumerge==2
    (34,482 observations deleted)
```

```
210 . gen math=0

211 . replace math=1 if ecourse1==1
    (102,291 real changes made)

212 . gen sci=0

213 . replace sci=1 if ecourse2==1
    (99,592 real changes made)

214 . gen eng=0

215 . replace eng=1 if ecourse3==1
    (148,508 real changes made)

216 . ******************************Data Management**********************
217 . drop if tage<18
    (71,482 observations deleted)

218 . drop if tage >64
    (49,165 observations deleted)

219 .
220 . * Work hour<1
221 . drop if ejbhrs1<1
    (77,858 observations deleted)

222 .
223 .
224 . *delege useless license data
225 . drop if  iprocert <1
    (9,461 observations deleted)

226 .
227 . *Delete imptued license
228 . drop if iwhopcer <0
    (366 observations deleted)

229 .
230 . * Define demographic
231 . generate female =1

232 . replace female =0 if esex==1
    (47,801 real changes made)

233 . drop if female==1
    (48,060 observations deleted)

234 .
235 . generate black=0
```

```
236 . replace black=1 if erace==2
    (4,325 real changes made)

237 .
238 . generate hispanic=0

239 . replace hispanic=1 if eorigin==1 & black==0
    (6,187 real changes made)

240 .
241 . *Create hourly wage
242 . generate long wage = (tpmsum1)/4/ejbhrs1

243 . drop if wage>100
    (685 observations deleted)

244 . drop if wage<5
    (4,047 observations deleted)

245 . gen lwage =log(wage)

246 . generate union=1

247 . replace union=0 if eunion1==2
    (37,332 real changes made)

248 .
249 . *Delete imputed union data
250 . drop if eunion1 <0
    (4 observations deleted)

251 .
252 . *Drop race other than white and black
253 . gen other=0

254 . replace other=1 if erace>2
    (3,246 real changes made)

255 .
256 . ***Merging with Module data of license (skip)
257 . ***Create license dummy (skip)
258 .
259 . *Delete imputed licensure source
260 . drop if iwhopcer <0
    (0 observations deleted)

261 .
262 .
263 . *Create gov't summy
264 . generate govt=0
```

```
265 . replace govt=1 if inrange(eclwrk1, 3,5)
    (6,683 real changes made)

266 .
267 . *service worker?
268 . gen service=0

269 . replace service=1 if inrange(ejbind1,6870,9290)
    (17,093 real changes made)

270 .
271 . *Create education dummy
272 . generate hs =0

273 . replace hs=1 if eeducate==39
    (11,397 real changes made)

274 . generate somecollege =0

275 . replace somecollege=1 if inrange(eeducate,40,43)
    (14,748 real changes made)

276 . generate college=0

277 . replace college=1 if eeducate ==44
    (9,228 real changes made)

278 . generate postgrad=0

279 . replace postgrad=1 if eeducate >44
    (4,531 real changes made)

280 .
281 . *Create self-employment and big company dummy
282 . generate self_emp=1

283 . replace self_emp=0 if ebuscntr<0
    (41,861 real changes made)

284 .
285 . gen age2=tage*tage

286 . rename tage age

287 .
288 .
289 . *Ensure that the license variable does not contain certified
290 . replace license=0 if cert==1
    (3,847 real changes made)

291 .
```

```
292 . *Ensure the license indicator include only license being required by job
293 . gen licensenorequire=0

294 . replace licensenorequire=1 if irjpcert!=1 & license==1
    (1,298 real changes made)

295 . replace license=0 if irjpcert>1
    (1,637 real changes made)

296 .
297 .
298 . ************** Redefine licensing by 50/50 rule
299 . egen licensecheck=mean(license), by(tfipsst tjbocc1)

300 . replace license=0 if licensecheck<0.5
    (1,845 real changes made)

301 . replace license=1 if licensecheck>=0.5
    (1,245 real changes made)

302 .
303 .
304 .                 *Merge with ban data
305 .         gen state_occ=string(tfipsst)+"-"+string(tjbocc1) if license==1
    (38,163 missing values generated)

306 .
307 .         merge m:1 state_occ using "C:\Users\Bobby W. Chung\OneDrive\Project E\Project\Occupatio
    > ate(_felonymerge)

        Result                           # of obs.
        -----------------------------------------
        not matched                        43,249
            from master                    41,014  (_felonymerge==1)
            from using                      2,235  (_felonymerge==2)

        matched                             2,051  (_felonymerge==3)
        -----------------------------------------

308 .
309 .         drop if _felonymerge==2
    (2,235 observations deleted)

310 .         replace permban=0 if _felonymerge==1
    (41,014 real changes made)

311 .         replace felony=0 if _felonymerge==1
    (41,014 real changes made)

312 .
313 .         rename permban Ban
```

```
314 .
315 .         ***"permban" only contains permanent ban
316 .         ***"felony" contains both temporary and permanent ban
317 .
318 .         keep if apmsum1==0 & inrange(wage,5,100)
    (4,893 observations deleted)

319 .
320 .
321 .         gen person=0

322 .         replace person=1 if iwhypcer==2
    (397 real changes made)

323 .
324 .         ***************** Race selection
325 .         drop if other==1
    (2,928 observations deleted)

326 .         drop if hispanic==1 & black==0
    (4,908 observations deleted)

327 .
328 .
329 .         **********************************
330 .         **** Main Table
331 .         **********************************
332 .         replace quality=100 if missing(quality)
    (28,786 real changes made)

333 .
334 .         local controls  age age2  hs somecollege college postgrad union govt self_em service

335 .         *quality
336 .         *eng math sci person
337 .
338 .         **Add [pweight=wpfinwgt] for weighted OLS
339 .
340 .
341 .         gen boxyes=0

342 .         replace boxyes=1 if inlist(tfipsst,6,8,9,11,15,25,27,35)
    (4,716 real changes made)

343 .
344 .         gen BTBban=Ban*boxyes

345 .         replace Ban=0 if BTBban==1
    (246 real changes made)

346 .         gen nonBTBban=Ban
```

```
347 .
348 .
349 .         gen con_edu=0

350 . replace con_edu=1 if icdpcert==1
    (5,178 real changes made)

351 .
352 .
353 .         **** All license
354 .
355 . quietly areg lwage black  license cert licensenorequire  `controls' i.tfipsst  i.rhcalmn if apm
    > st) absorb(tjbocc1)

356 .         psacalc delta  license, beta(0) rmax(0.61)
```

	——— Bound Estimate ———
delta	**1.98528**

	——— Inputs from Regressions ———	
	Coeff.	R-Squared
Uncontrolled	**0.17752**	**0.010**
Controlled	**0.04483**	**0.560**

	——— Other Inputs ———
R_max	0.610
Beta	0.000000
Unr. Controls	

```
357 .         psacalc delta  license, beta(0) rmax(0.72)
```

	——— Bound Estimate ———
delta	**0.62282**

	——— Inputs from Regressions ———	
	Coeff.	R-Squared
Uncontrolled	**0.17752**	**0.010**
Controlled	**0.04483**	**0.560**

	——— Other Inputs ———
R_max	0.720
Beta	0.000000
Unr. Controls	

```
358 .         psacalc delta  license, beta(0) rmax(1)
```

	——— Bound Estimate ———
delta	**0.22674**

	——— Inputs from Regressions ——— Coeff.	R-Squared
Uncontrolled	**0.17752**	**0.010**
Controlled	**0.04483**	**0.560**

	——— Other Inputs ———
R_max	1.000
Beta	0.000000
Unr. Controls	

```
359 .
360 .
361 .         ***************** BY race
362 . quietly areg lwage license cert licensenorequire  `controls' i.tfipsst  i.rhcalmn if apmsum1==0
    > fipsst) absorb(tjbocc1)

363 .         psacalc delta  license, beta(0) rmax(0.61)
```

	——— Bound Estimate ———
delta	**1.92048**

	——— Inputs from Regressions ——— Coeff.	R-Squared
Uncontrolled	**0.15110**	**0.008**
Controlled	**0.03941**	**0.558**

	——— Other Inputs ———
R_max	0.610
Beta	0.000000
Unr. Controls	

```
364 .         psacalc delta  license, beta(0) rmax(0.72)
```

	——— Bound Estimate ———
delta	**0.62244**

	——— Inputs from Regressions ——— Coeff.	R-Squared
Uncontrolled	**0.15110**	**0.008**
Controlled	**0.03941**	**0.558**

	——— Other Inputs ———
R_max	0.720
Beta	0.000000
Unr. Controls	

```
365 .         psacalc delta  license, beta(0) rmax(1)
```

	——— Bound Estimate ———
delta	**0.22880**

	——— Inputs from Regressions ———	
	Coeff.	R-Squared
Uncontrolled	**0.15110**	**0.008**
Controlled	**0.03941**	**0.558**

	——— Other Inputs ———
R_max	1.000
Beta	0.000000
Unr. Controls	

```
366 .
367 . quietly areg lwage license cert licensenorequire  `controls' i.tfipsst  i.rhcalmn if apmsum1==0
    > fipsst) absorb(tjbocc1)

368 .         psacalc delta  license, beta(0) rmax(0.75)
```

	——— Bound Estimate ———
delta	**3.05947**

	——— Inputs from Regressions ———	
	Coeff.	R-Squared
Uncontrolled	**0.28021**	**0.015**
Controlled	**0.15894**	**0.685**

	——— Other Inputs ———
R_max	0.750
Beta	0.000000
Unr. Controls	

```
369 .         psacalc delta  license, beta(0) rmax(0.89)
```

	——— Bound Estimate ———
delta	**0.98627**

	——— Inputs from Regressions ———	
	Coeff.	R-Squared
Uncontrolled	**0.28021**	**0.015**
Controlled	**0.15894**	**0.685**

	——— Other Inputs ———
R_max	0.890
Beta	0.000000
Unr. Controls	

```
370 .         psacalc delta  license, beta(0) rmax(1)
```

	——— Bound Estimate ———
delta	**0.64360**

	——— Inputs from Regressions ———	
	Coeff.	R-Squared
Uncontrolled	**0.28021**	**0.015**
Controlled	**0.15894**	**0.685**

	——— Other Inputs ———
R_max	1.000
Beta	0.000000
Unr. Controls	

```
371 .
372 .
373 .
    end of do-file

374 .
```