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/* Copyright 2006 by Chris Sanchirico*/
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```
* What this file does
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* =====
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```
/* It takes an individual level data set from PSID for all years and creates a family level data set for all years with all necessary variables. Details on any given variable are available from the PSID data center. Type the variable name into the search facility.*/
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```
* Open raw file and rename
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```
use "C:\Documents and Settings\csanchir\My Documents\Data Sources\PSID & CDS\PSID Work hours and Potential Income 79 89 00 03\All years\All years individual with family with BRR variables raw.dta", clear  
save "C:\Documents and Settings\csanchir\My Documents\Data Sources\PSID & CDS\PSID Work hours and Potential Income 79 89 00 03\All years\All years obs on family with BRR variables.dta", replace
```

```
*Drop observations other than for heads
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```
g year = (er30313 < .)*79 + (er30642 < .)*89 + (er33601 < .)*00  
g hd79 = (er30314 >= 1 & er30314 <= 20 & er30315 == 1) /* sequence number between 1-20 (in family unit at time of interview)  
and relation to head = 1*/  
g hd89 = (er30643 >= 1 & er30643 <= 20 & er30644 == 10) /* sequence number between 1-20 (in family unit at time of interview)  
and relation to head = 10*/  
g hd00 = (er33602 >= 1 & er33602 <= 20 & er33603 == 10) /* sequence number between 1-20 (in family unit at time of interview)  
and relation to head = 10*/
```

```
drop if hd79 ~= 1 & hd89 ~= 1 & hd00 ~= 1
```

```
*Create variables
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*=====
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```
* Family Identifier
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* -----
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```
g famid79 = er30313  
g famid89 = er30642  
g famid00 = er33601
```

```
* Survey design
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* -----
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```
/*Early PSID documentation (e.g., Morgan & Smith (1968) contains some discussion of PSID's initial sample design. The initial combination of two samples was later reweighted for differential attrition and also poststratification to conform to the census statistics. Further subsamples were added for Latinos and immigrants and families were dropped to save costs, etc...*/
```

```
g famweight79 = v7451  
g famweight89 = v18943  
g famweight00 = fcwt01 /* PSID had "dropped" its Latino subsample by 2000*/  
g immigrant00 = (er30001 >= 3001 & er30001 <= 3511) /*An immigrant subsample (er30001 = 3001 to 3511) was added by PSID  
in 1997 and 1999. It is not included here, however, because PSID makes no provision for BRR for the immigrant subsample.*/
```

```
g famweight = famweight79  
replace famweight = famweight89 if year == 89  
replace famweight = famweight00 if year == 00
```

```
/* The following variables are for use in calculating standard errors via balanced repeated replication. See PSID documentation regarding "SECU's." Stratum and PSU identifiers are in the individual file, but examination reveals that, sensibly, there a one unique pair for each family.*/
```

```

g stratum = ER31996
g psu = ER31997
drop if stratum > 32 /* Latino subsample dropped */
drop if stratum == 0 /* immigrant sample is excluded from PSID BRR design*/

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```

* Specify all-year survey design
* =====
svyset psu [pw=famweight], strata(stratum)

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```

* Actual average hourly earnings for heads and wives--2000 dollars
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```

* PSID has average hourly earnings data only for heads and wives.

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* Inflation adjustment
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*$ amounts stated in 2000 $'s using chain-type PCE price index from NIPA, as also used in Blau & Kahn (2006).
*2000 = 100; 1989 = 76.972; 1979 = 47.059

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```

g hdavghrl yearn79 = v7417*(100/47.059)
g wfavghrl yearn79 = v7418*(100/47.059)
g hdavghrl yearn89 = v18887*(100/76.972)
g wfavghrl yearn89 = v18888*(100/76.972)
g hdavghrl yearn00 = hdwge01
g wfavghrl yearn00 = ffwge01

```

```

* Top-coding
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```

*1) infrequent in the data;
*2) Following convention, I multiply top-coded values by 1.5

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```

replace hdavghrl yearn79 = 1.5*hdavghrl yearn79 if (hdavghrl yearn79 >= 99.99)
replace wfavghrl yearn79 = 1.5*wfavghrl yearn79 if (wfavghrl yearn79 >= 99.99)
replace hdavghrl yearn89 = 1.5*hdavghrl yearn89 if (hdavghrl yearn89 >= 99.99)
replace wfavghrl yearn89 = 1.5*wfavghrl yearn89 if (wfavghrl yearn89 >= 99.99)

```

```

/*In 2000, top-coding for heads was at 500, which is non binding. For wives in 2000 it was apparently
also at 500, but the code book does not say so. Only two wives have precisely 500. I assume these are actually 500.*/*

```

```

* Error codes
* -----

```

```

*1) these only appear in 2000
*2) I convert them to missing values

```

```

replace hdavghrl yearn00 = . if hdavghrl yearn00 ==9998 | hdavghrl yearn00 ==9999
replace wfavghrl yearn00 = . if wfavghrl yearn00 ==9998 | wfavghrl yearn00 ==9999

```

```

*Work hours and actual earnings
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```

```

/* PSID assigned missing data for work hours. I use their assignments. */
/* wfannwrkhrs__ = 0 if there is no wife in the family unit, or if the wife did not work*/

```

```

g hdannwrkhrs79 = v6934
g wfannwrkhrs79 = v6946
g famannwrkhrs79 = hdannwrkhrs79 + wfannwrkhrs79
g hdfulltime79 = (hdannwrkhrs79 >= 2000)
g wffulltime79 = (wfannwrkhrs79 >= 2000)

hours, so this variable merely restores average hourly earnings to labor income*/
g hdactinc79 = hdannwrkhrs79*hdavghrlyearn79 /* PSID defines average hourly earnings to be labor income divided by
g wfactinc79 = wfannwrkhrs79*wfavghrlyearn79
g famactinc79 = wfactinc79+hdactinc79

g hdannwrkhrs89 = v17744
g wfannwrkhrs89 = v17774
g famannwrkhrs89 = hdannwrkhrs89 + wfannwrkhrs89
g hdfulltime89 = (hdannwrkhrs89 >= 2000)
g wffulltime89 = (wfannwrkhrs89 >= 2000)

hours, so this variable merely restores average hourly earnings to labor income*/
g hdactinc89 = hdannwrkhrs89*hdavghrlyearn89 /* PSID defines average hourly earnings to be labor income divided by
g wfactinc89 = wfannwrkhrs89*wfavghrlyearn89
g famactinc89 = wfactinc89+hdactinc89

g hdannwrkhrs00 = hdtot01
g wfannwrkhrs00 = wftot01
g famannwrkhrs00 = hdannwrkhrs00 + wfannwrkhrs00
g hdfulltime00 = (hdannwrkhrs00 >= 2000)
g wffulltime00 = (wfannwrkhrs00 >= 2000)

hours, so this variable merely restores average hourly earnings to labor income*/
g hdactinc00 = hdannwrkhrs00*hdavghrlyearn00 /* PSID defines average hourly earnings to be labor income divided by
g wfactinc00 = wfannwrkhrs00*wfavghrlyearn00
g famactinc00 = wfactinc00+hdactinc00

```

*Demographic variables for separate prediction of head and wife average hourly earnings

*-----

```

* Age
/*error codes set to missing data. Top-coding ignored. Age = 0, if no wife in family unit*/

g hdage79 = v7067
  replace hdage79 = . if hdage79 == 99
g wfage79 = v7069
  replace wfage79 = . if wfage79 == 99
g hdagesq79 = hdage79^2
g wfagesq79 = wfage79^2

g hdage89 = v18049
  replace hdage89 = . if hdage89 == 99
g wfage89 = v18051
  replace wfage89 = . if wfage89 == 99
g hdagesq89 = hdage89^2
g wfagesq89 = wfage89^2

```

```

g hdage00 = er17013
  replace hdage00 = . if hdage00 == 999
g wfage00 = er17015
  replace wfage00 = . if wfage00 == 999
g hdagesq00 = hdage00^2
g wfagesq00 = wfage00^2

```

* Gender

```

/* Heads may be male or female; wives (cf. "husband of head") are always female. */
g hdfemale79 = v7068-1 /*v7068: 1=male; 2=female*/
g wffemale79 = 1 /* This definition is (purposefully) superfluous*/
g hdfemale89 = v18050-1 /*v18050: 1=male; 2=female*/
g wffemale89 = 1 /* This definition is (purposefully) superfluous*/
g hdfemale00 = er17014-1 /*er17014: 1=male; 2=female*/
g wffemale00 = 1 /* This definition is (purposefully) superfluous*/

```

*Race and ethnicity

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g hdblack79 = (v7447 == 2)
/* For 1979 PSID gives "race" only for family, not head and wife separately; and even this from
questions asked last in 1972, perhaps of predecessor families.*/
g wfblack79 = (v7447 == 2)
g hdhispan79 = (v7447 == 3) /*For 1979 PSID labels this "Spanish-American"*/
g wfhispan79 = (v7447 == 3)
g hdblack89 = (v18814 == 2 | v18815 == 2)
g wfblack89 = (v18749 == 2 | v18750 == 2)
/* There are two mentions of race. A individual is here considered black if to either mention the
answer is black. */
g hdhispan89 = (v18814 == 5 | v18815 == 5)
g wfhispan89 = (v18749 == 5 | v18750 == 5)
/* See note on black. The label in 1989 is "Latino origin or descent."*/
g hdblack00 = (er19989 == 2 | er19990 == 2 | er19991 == 2 | er19992 == 2)
g wfblack00 = (er19897 == 2 | er19898 == 2 | er19899 == 2 | er19900 == 2)
/*There are several mentions of race. A individual is here considered black if to any mention the
answer is black. */
g hdhispan00 = (er19989 == 5 | er19990 == 5 | er19991 == 5 | er19992 == 5)
g wfhispan00 = (er19897 == 5 | er19898 == 5 | er19899 == 5 | er19900 == 5)
/*see note on black. The label in 2000 is "Latino origin or descent."*/

```

*Education

```

/* All education variables are cumulative: e.g., hdhs79 = 1 if head completed at least high school, and possibly
college etc.... */
g hdeduc79 = v7433
  replace hdeduc79 = . if (hdeduc79 == 9)
g hdhs79 = (hdeduc79 >= 4)
  note hdhs79: =1 if head completed at least high school
g hdcoll79 = (hdeduc79 >= 7)
  note hdcoll79: =1 if head completed at least college
g hadvprof79 = (hdeduc79 >= 8)
g wfeduc79 = v7434 /*In contrast to hdeduc79, 0 here means no wife in family unit, as opposed to illiterate*/
  replace wfeduc79 = . if (wfeduc79 == 9)

```

```

g wfhs79 = (wfeduc79 >= 4)
  note wfhs79: =1 if wife completed at least highschool
g wfcoll79 = (wfeduc79 >= 7)
  note wfcoll79: =1 if wife completed at least college
g wfadvprof79 = (wfeduc79 >= 8)

/* For 1989 education last asked of preexisting heads and wives in 1985 and then carried forward. Asked of new
head or wives when that status was attained.*/
g hdeduc89 = v18898
  replace hdeduc89 = . if (hdeduc89 == 9)
g hdhs89 = (hdeduc89 >= 4)
  note hdhs89: =1 if head completed at least highschool
g hdcoll89 = (hdeduc89 >= 7)
  note hdcoll89: =1 if head completed at least college
g hdadvprof89 = (hdeduc89 >= 8)

g wfeduc89 = v18899
  replace wfeduc89 = . if (wfeduc89 == 9)
g wfhs89 = (wfeduc89 >= 4)
  note wfhs89: =1 if wife completed at least highschool
g wfcoll89 = (wfeduc89 >= 7)
  note wfcoll89: =1 if wife completed at least college
g wfadvprof89 = (wfeduc89 >= 8)

/* For 2000 education last asked of preexisting heads and wives in 1995 and then carried forward. Asked of new
head or wives when that status was attained. This variable not completely comparable to education variables used in earlier years.*/
g hdeduc00 = upedu01h
  replace hdeduc00 = . if (hdeduc00 == 99)
g hdhs00 = (hdeduc00 >= 12)
g hdcoll00 = (hdeduc00 >= 16)
g hdadvprof00 = (hdeduc00 >= 17)

g wfeduc00 = upedu01w
  replace wfeduc00 = . if (wfeduc00 == 99)
g wfhs00 = (wfeduc00 >= 12)
g wfcoll00 = (wfeduc00 >= 16)
g wfadvprof00 = (wfeduc00 >= 17)

*Geography
/* In 1979, as opposed to 1989 and 2000, there are no Beale-Ross Rural Urban codes in PSID; this measure did not
exist in 1979. For consistency across years, and at the expense of a more valid coding convention in 1989 and 2000, in all years I
code an individual as urban if the largest urban area ("SMSA") in the primary sampling unit (county, county group, or SMSA) has at
least 100,000 people.*/

gen region79 = V7419
  replace region79 = . if region79 == 9
  note region79: 1=northeast; 2=northcentral; 3=south; 4=west; 5=Alaska, Hawaii; 6 = foreign country; 9 =
NA
gen urban79 = (V6906 <= 2)
  note urban79: urban79 = 1 if largest urban area ("SMSA") in PSU (county, county group, or SMSA) has at
least 100,000 people. Otherwi se urban79 = 0.
gen region89 = V18889

```

```

note region89: 1=northeast; 2=northcentral; 3=south; 4=west; 5=Alaska, Hawaii; 6 = foreign country; 9 =
NA
gen urban89 = (V17706 <= 2)
gen region00 = ER20376
note region00: 1=northeast; 2=northcentral; 3=south; 4=west; 5=Alaska, Hawaii; 6 = foreign country; 9 =
NA
gen urban00 = (ER20378 <= 2)
note urban00: urban00 = 1 if the largest urban area ("SMSA") in the primary sampling unit (county,
county group, or SMSA) has at least 100,000 people; otherwise urban00 = 0.

```

*Additional variables for Heckman selection equation

*-----

```

g numchld79 = v7070 /* actual number of children in family unit aged 0-17*/
g numchld89 = v18052
g numchld00 = er17016

```

```

g couple79 = (v7069 ~= 0)

```

/* = 1 if age of wife non zero, which indicates presence of wife. Open question: This dummy seems to have the value zero for female-headed couples. For such couples there is no PSID wife. PSID FAQ's say that the males in such couples are usually disabled.*/

```

g couple89 = (v18051 ==0)
g couple00 = (er17015 == 0)

```

* Generate region and numchld dummies

* =====

* 1979

* -----

```

g region1_79 = 1 if region79 == 1
repl ace region1_79 = 0 if region79 ~= 1 & region79 < .
g region2_79 = 1 if region79 == 2
repl ace region2_79 = 0 if region79 ~= 2 & region79 < .
g region3_79 = 1 if region79 == 3
repl ace region3_79 = 0 if region79 ~= 3 & region79 < .
g region4_79 = 1 if region79 == 4
repl ace region4_79 = 0 if region79 ~= 4 & region79 < .
g region5_79 = 1 if region79 == 5
repl ace region5_79 = 0 if region79 ~= 5 & region79 < .
g region6_79 = 1 if region79 == 6
repl ace region6_79 = 0 if region79 ~= 6 & region79 < .

g numchld0_79 = 1 if numchld79 >= 0
repl ace numchld0_79 = 0 if numchld79 < 0 & numchld79 < .
g numchld1_79 = 1 if numchld79 >= 1
repl ace numchld1_79 = 0 if numchld79 < 1 & numchld79 < .
g numchld2_79 = 1 if numchld79 >= 2
repl ace numchld2_79 = 0 if numchld79 < 2 & numchld79 < .
g numchld3_79 = 1 if numchld79 >= 3
repl ace numchld3_79 = 0 if numchld79 < 3 & numchld79 < .
g numchld4_79 = 1 if numchld79 >= 4
repl ace numchld4_79 = 0 if numchld79 < 4 & numchld79 < .

```

```
g numchl d5_79 = 1 i f numchl d79 >= 5
repl ace numchl d5_79 = 0 i f numchl d79 < 5 & numchl d79 < .
g numchl d6_79 = 1 i f numchl d79 >= 6
repl ace numchl d6_79 = 0 i f numchl d79 < 6 & numchl d79 < .
g numchl d7_79 = 1 i f numchl d79 >= 7
repl ace numchl d7_79 = 0 i f numchl d79 < 7 & numchl d79 < .
g numchl d8_79 = 1 i f numchl d79 >= 8
repl ace numchl d8_79 = 0 i f numchl d79 < 8 & numchl d79 < .
```

```
* 1989
* -----
```

```
g regi on1_89 = 1 i f regi on89 == 1
repl ace regi on1_89 = 0 i f regi on89 ~= 1 & regi on89 < .
g regi on2_89 = 1 i f regi on89 == 2
repl ace regi on2_89 = 0 i f regi on89 ~= 2 & regi on89 < .
g regi on3_89 = 1 i f regi on89 == 3
repl ace regi on3_89 = 0 i f regi on89 ~= 3 & regi on89 < .
g regi on4_89 = 1 i f regi on89 == 4
repl ace regi on4_89 = 0 i f regi on89 ~= 4 & regi on89 < .
g regi on5_89 = 1 i f regi on89 == 5
repl ace regi on5_89 = 0 i f regi on89 ~= 5 & regi on89 < .
g regi on6_89 = 1 i f regi on89 == 6
repl ace regi on6_89 = 0 i f regi on89 ~= 6 & regi on89 < .
```

```
g numchl d0_89 = 1 i f numchl d89 >= 0
repl ace numchl d0_89 = 0 i f numchl d89 < 0 & numchl d89 < .
g numchl d1_89 = 1 i f numchl d89 >= 1
repl ace numchl d1_89 = 0 i f numchl d89 < 1 & numchl d89 < .
g numchl d2_89 = 1 i f numchl d89 >= 2
repl ace numchl d2_89 = 0 i f numchl d89 < 2 & numchl d89 < .
g numchl d3_89 = 1 i f numchl d89 >= 3
repl ace numchl d3_89 = 0 i f numchl d89 < 3 & numchl d89 < .
g numchl d4_89 = 1 i f numchl d89 >= 4
repl ace numchl d4_89 = 0 i f numchl d89 < 4 & numchl d89 < .
g numchl d5_89 = 1 i f numchl d89 >= 5
repl ace numchl d5_89 = 0 i f numchl d89 < 5 & numchl d89 < .
g numchl d6_89 = 1 i f numchl d89 >= 6
repl ace numchl d6_89 = 0 i f numchl d89 < 6 & numchl d89 < .
g numchl d7_89 = 1 i f numchl d89 >= 7
repl ace numchl d7_89 = 0 i f numchl d89 < 7 & numchl d89 < .
g numchl d8_89 = 1 i f numchl d89 >= 8
repl ace numchl d8_89 = 0 i f numchl d89 < 8 & numchl d89 < .
```

```
* 2000
* -----
```

```
g regi on1_00 = 1 i f regi on00 == 1
repl ace regi on1_00 = 0 i f regi on00 ~= 1 & regi on00 < .
g regi on2_00 = 1 i f regi on00 == 2
repl ace regi on2_00 = 0 i f regi on00 ~= 2 & regi on00 < .
g regi on3_00 = 1 i f regi on00 == 3
repl ace regi on3_00 = 0 i f regi on00 ~= 3 & regi on00 < .
g regi on4_00 = 1 i f regi on00 == 4
```

```

repl ace regi on4_00 = 0 i f regi on00 ~= 4 & regi on00 < .
g regi on5_00 = 1 i f regi on00 == 5
repl ace regi on5_00 = 0 i f regi on00 ~= 5 & regi on00 < .
g regi on6_00 = 1 i f regi on00 == 6
repl ace regi on6_00 = 0 i f regi on00 ~= 6 & regi on00 < .

```

```

g numchl d0_00 = 1 i f numchl d00 >= 0
repl ace numchl d0_00 = 0 i f numchl d00 < 0 & numchl d00 < .
g numchl d1_00 = 1 i f numchl d00 >= 1
repl ace numchl d1_00 = 0 i f numchl d00 < 1 & numchl d00 < .
g numchl d2_00 = 1 i f numchl d00 >= 2
repl ace numchl d2_00 = 0 i f numchl d00 < 2 & numchl d00 < .
g numchl d3_00 = 1 i f numchl d00 >= 3
repl ace numchl d3_00 = 0 i f numchl d00 < 3 & numchl d00 < .
g numchl d4_00 = 1 i f numchl d00 >= 4
repl ace numchl d4_00 = 0 i f numchl d00 < 4 & numchl d00 < .
g numchl d5_00 = 1 i f numchl d00 >= 5
repl ace numchl d5_00 = 0 i f numchl d00 < 5 & numchl d00 < .
g numchl d6_00 = 1 i f numchl d00 >= 6
repl ace numchl d6_00 = 0 i f numchl d00 < 6 & numchl d00 < .
g numchl d7_00 = 1 i f numchl d00 >= 7
repl ace numchl d7_00 = 0 i f numchl d00 < 7 & numchl d00 < .
g numchl d8_00 = 1 i f numchl d00 >= 8
repl ace numchl d8_00 = 0 i f numchl d00 < 8 & numchl d00 < .

```

* Family average hourly earnings

```

* =====
      g famavghrl yearn79 = hdavghrl yearn79
        repl ace famavghrl yearn79 = hdavghrl yearn79 + wfavghrl yearn79 i f coupl e79 == 1
      g famavghrl yearn89 = hdavghrl yearn89
        repl ace famavghrl yearn89 = hdavghrl yearn89 + wfavghrl yearn89 i f coupl e89 == 1
      g famavghrl yearn00 = hdavghrl yearn00
        repl ace famavghrl yearn00 = hdavghrl yearn00 + wfavghrl yearn00 i f coupl e00 == 1

```

* Hadamard matrices for balanced repeated replication variance estimation

```

* =====

```

/* Begin note:

1. The following hadamard matrices are created using Kronecker matrix multiplication. They conform to hadamards provided by Wolter (1985) pp. 320-352. Other hadamards could also have been used. See Wolger (1985) pp. 111-116 for a discussion of Balanced Half-Sample Replication and the role of Hadamards, and in particular their two important properties.
End note.*/*

```

matrix h2 = (1,1\1, -1)
matrix h4 = h2#h2
matrix h8 = h2#h4
matrix h16 = h2#h8
matrix h32 = h2#h16
matrix h64 = h2#h32
matrix h128 = h2#h64

```

/* Begin note:


```

g hdagesq = hdagesq79
  repl ace hdagesq = hdagesq89 i f year == 89
  repl ace hdagesq = hdagesq00 i f year == 00
g hdfemal e = hdfemal e79
  repl ace hdfemal e = hdfemal e89 i f year == 89
  repl ace hdfemal e = hdfemal e00 i f year == 00
g hdbl ack = hdbl ack79
  repl ace hdbl ack = hdbl ack89 i f year == 89
  repl ace hdbl ack = hdbl ack00 i f year == 00
g hdhi sp = hdhi sp79
  repl ace hdhi sp = hdhi sp89 i f year == 89
  repl ace hdhi sp = hdhi sp00 i f year == 00
g hdhs = hdhs79
  repl ace hdhs = hdhs89 i f year == 89
  repl ace hdhs = hdhs00 i f year == 00
g hdcoll = hdcoll79
  repl ace hdcoll = hdcoll89 i f year == 89
  repl ace hdcoll = hdcoll00 i f year == 00
g hdadvprof = hdadvprof79
  repl ace hdadvprof = hdadvprof89 i f year == 89
  repl ace hdadvprof = hdadvprof00 i f year == 00
g regi on = regi on79
  repl ace regi on = regi on89 i f year == 89
  repl ace regi on = regi on00 i f year == 00
g urban = urban79
  repl ace urban = urban89 i f year == 89
  repl ace urban = urban00 i f year == 00
g hdfulltime = hdfulltime79
  repl ace hdfulltime = hdfulltime89 i f year == 89
  repl ace hdfulltime = hdfulltime00 i f year == 00
g numchld = numchld79
  repl ace numchld = numchld89 i f year == 89
  repl ace numchld = numchld00 i f year == 00
g coupl e = coupl e79
  repl ace coupl e = coupl e89 i f year == 89
  repl ace coupl e = coupl e00 i f year == 00
g wfavghrl yearn = wfavghrl yearn79
  repl ace wfavghrl yearn = wfavghrl yearn89 i f year == 89
  repl ace wfavghrl yearn = wfavghrl yearn00 i f year == 00
g wfage = wfage79
  repl ace wfage = wfage89 i f year == 89
  repl ace wfage = wfage00 i f year == 00
g wfagesq = wfagesq79
  repl ace wfagesq = wfagesq89 i f year == 89
  repl ace wfagesq = wfagesq00 i f year == 00
g wffemal e = wffemal e79
  repl ace wffemal e = wffemal e89 i f year == 89
  repl ace wffemal e = wffemal e00 i f year == 00
g wfbl ack = wfbl ack79
  repl ace wfbl ack = wfbl ack89 i f year == 89
  repl ace wfbl ack = wfbl ack00 i f year == 00
g wfhi sp = wfhi sp79
  repl ace wfhi sp = wfhi sp89 i f year == 89
  repl ace wfhi sp = wfhi sp00 i f year == 00

```

```

g wfhs = wfhs79
  replace wfhs = wfhs89 if year == 89
  replace wfhs = wfhs00 if year == 00
g wfcoll = wfcoll79
  replace wfcoll = wfcoll89 if year == 89
  replace wfcoll = wfcoll00 if year == 00
g wfadvprof = wfadvprof79
  replace wfadvprof = wfadvprof89 if year == 89
  replace wfadvprof = wfadvprof00 if year == 00
g wffulltime = wffulltime79
  replace wffulltime = wffulltime89 if year == 89
  replace wffulltime = wffulltime00 if year == 00
g hdannwrkhrs = hdannwrkhrs79
  replace hdannwrkhrs = hdannwrkhrs89 if year == 89
  replace hdannwrkhrs = hdannwrkhrs00 if year == 00
g wfannwrkhrs = wfannwrkhrs79
  replace wfannwrkhrs = wfannwrkhrs89 if year == 89
  replace wfannwrkhrs = wfannwrkhrs00 if year == 00
g famannwrkhrs = famannwrkhrs79
  replace famannwrkhrs = famannwrkhrs89 if year == 89
  replace famannwrkhrs = famannwrkhrs00 if year == 00
g famid = famid79
  replace famid = famid89 if year == 89
  replace famid = famid00 if year == 00
g hd = hd79
  replace hd = hd89 if year == 89
  replace hd = hd00 if year == 00

```

* Generate predicted average hourly earnings

```

* =====
do "C:\Documents and Settings\csanchir\My Documents\Data Sources\PSID & CDS\PSID Work hours and Potential Income 79 89 00 03\All
years\Wage prediction only 79.do"
do "C:\Documents and Settings\csanchir\My Documents\Data Sources\PSID & CDS\PSID Work hours and Potential Income 79 89 00 03\All
years\Wage prediction only 89.do"
do "C:\Documents and Settings\csanchir\My Documents\Data Sources\PSID & CDS\PSID Work hours and Potential Income 79 89 00 03\All
years\Wage prediction only 00.do"

```

```

estprogram79 hdavghrl yearn79 hdage79 hdagesq79 hdfemale79 hdblack79 hdhis79 hdhs79 hdcoll79 hdadvprof79 region79 urban79 famweight79
hdfulltime79 numchld79 couple79 wfavghrl yearn79 wfage79 wfagesq79 wffemale79 wfblack79 wfhis79 wfhs79 wfcoll79 wfadvprof79
wffulltime79 hdannwrkhrs79 wfannwrkhrs79 famannwrkhrs79 famid79 hd79 year
estprogram89 hdavghrl yearn89 hdage89 hdagesq89 hdfemale89 hdblack89 hdhis89 hdhs89 hdcoll89 hdadvprof89 region89 urban89 famweight89
hdfulltime89 numchld89 couple89 wfavghrl yearn89 wfage89 wfagesq89 wffemale89 wfblack89 wfhis89 wfhs89 wfcoll89 wfadvprof89
wffulltime89 hdannwrkhrs89 wfannwrkhrs89 famannwrkhrs89 famid89 hd89 year
estprogram00 hdavghrl yearn00 hdage00 hdagesq00 hdfemale00 hdblack00 hdhis00 hdhs00 hdcoll00 hdadvprof00 region00 urban00 famweight00
hdfulltime00 numchld00 couple00 wfavghrl yearn00 wfage00 wfagesq00 wffemale00 wfblack00 wfhis00 wfhs00 wfcoll00 wfadvprof00
wffulltime00 hdannwrkhrs00 wfannwrkhrs00 famannwrkhrs00 famid00 hd00 year

```

```

g prehdavghrl yearn = prehdavghrl yearn79
  replace prehdavghrl yearn = prehdavghrl yearn89 if year == 89
  replace prehdavghrl yearn = prehdavghrl yearn00 if year == 00

```

```

g prewfavghrl yearn = prewfavghrl yearn79
  replace prewfavghrl yearn = prewfavghrl yearn89 if year == 89

```

```

replace prewfavghrl yearn = prewfavghrl yearn00 if year == 00
g prefamavghrl yearn = prefamavghrl yearn79
  replace prefamavghrl yearn = prefamavghrl yearn89 if year == 89
  replace prefamavghrl yearn = prefamavghrl yearn00 if year == 00

* Generate predicted actual income
* =====
g hoursregressi onsampl e79 = (hdage79 >= 25 & hdage79 <=55 & (wfage79 >=25 & wfage79 <=55 | coupl e79 == 0)) & coupl e79 == 1 & year ==
79
g hoursregressi onsampl e89 = (hdage89 >= 25 & hdage89 <=55 & (wfage89 >=25 & wfage89 <=55 | coupl e89 == 0)) & coupl e89 == 1 & year ==
89
g hoursregressi onsampl e00 = (hdage00 >= 25 & hdage00 <=55 & (wfage00 >=25 & wfage00 <=55 | coupl e00 == 0)) & coupl e00 == 1 & year ==
00

fracpoly regress famacti nc79 prefamavghrl yearn79 numchl d1_79 numchl d2_79 numchl d3_79 numchl d4_79 numchl d5_79 numchl d6_79 numchl d7_79
numchl d8_79 if hoursregressi onsampl e79 == 1 [pw=famwei ght79], degree(4)
predi ct fampreacti nc79

fracpoly regress famacti nc89 prefamavghrl yearn89 numchl d1_89 numchl d2_89 numchl d3_89 numchl d4_89 numchl d5_89 numchl d6_89 numchl d7_89
numchl d8_89 if hoursregressi onsampl e89 == 1 [pw=famwei ght89], degree(4)
predi ct fampreacti nc89

fracpoly regress famacti nc00 prefamavghrl yearn00 numchl d1_00 numchl d2_00 numchl d3_00 numchl d4_00 numchl d5_00 numchl d6_00 numchl d7_00
numchl d8_00 if hoursregressi onsampl e00 == 1 [pw=famwei ght00], degree(4)
predi ct fampreacti nc00

g taxcohort79 = hoursregressi onsampl e79 == 1 & numchl d79 == 2
g taxcohort89 = hoursregressi onsampl e89 == 1 & numchl d89 == 2
g taxcohort00 = hoursregressi onsampl e00 == 1 & numchl d00 == 2

g fampoti nc79 = prefamavghrl yearn79*2000 /*Family predicted average hourly earnings is the sum of same for head and wi fe. Thus, we
multi ply by one set of full time hours, not two eventhough family has two earners.*/
g fampoti nc89 = prefamavghrl yearn89*2000
g fampoti nc00 = prefamavghrl yearn00*2000

g reali zrati o79 = fampreacti nc79/fampoti nc79
g reali zrati o89 = fampreacti nc89/fampoti nc89
g reali zrati o00 = fampreacti nc00/fampoti nc00

compress

```