

```
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-----  
-----  
name: <unnamed>  
log: C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov  
2011\Exercises\ex0.log  
log type: text  
opened on: 8 Nov 2011, 09:29:05
```

```
. //change to the preferred path to save the log file  
. *  
. *****  
. * Use the combined person file for each wave and *  
. * restrict the variables to those of interest *  
. * Save dataset with the wave prefixes for variables and *  
. * save one with the trimmed variable names *  
. *  
. *****  
. foreach w in a b c d e f g h i {  
2. *define the variables of interest that are common over time and  
then the variables specific to each wave  
. local commonvar1 "xwaveid `w'hhrhid `w'hhpixid `w'hhresp `w'hhstate  
`w'hhsos `w'ancob `w'losathl `w'hgsex `w'hgage `w'edhigh `w'mrcurr  
`w'hglth `w'jbhruc "  
3. local commonvar2 "`w'esdttl `w'esbrd `w'jbmhruc `w'jbn `w'ehtjbyr  
`w'jbempt `w'jbmcnt `w'jbmo62 `w'jbmi62 `w'jbmsall `w'jbemlyr `w'jbemlwk  
`w'jboccyr `  
> w'jbocckw"  
4. local commonvar3 "`w'fmfo62 `w'fmno62 `w'wsce `w'wscei `w'wscef  
`w'wscme `w'wscmei `w'wscmef `w'wscoe `w'wscoei `w'wscoef `w'wsfe  
`w'wsfei `w'wsfef"  
5. if "`w'"=="a" {  
6. local specvar "`w'hstenu `w'jbmuniu"  
7. }  
8. else if "`w'"=="i" {  
9. local specvar "`w'hstenu `w'jbtu `w'jbou `w'pjmsemp"  
10. }  
11. else {  
12. local specvar "`w'hstenu `w'jbmuniu `w'pjmsemp"  
13. }  
14.  
. display "wave: `w'"  
15. display "commonvar1: `commonvar1"  
16. display "commonvar2: `commonvar2"  
17. display "commonvar3: `commonvar3"  
18. display "specvar: `specvar"  
19.  
. use `commonvar1' `commonvar2' `commonvar3' `specvar' using  
"`origdata'\combined_`w'90c.dta", clear  
20. gen waveletter="`w'"  
21. gen wave=strpos("abcdefghi",waveletter)  
22. tab wave  
23. drop waveletter  
24.  
. * make the variables that differ over time consistent (housing tenure  
and union membership)  
. if "`w'"=="i" {  
25. recode `w'hstenu (1=1) (2/3=2) (4=3), gen(`w'hstenu)
```

```

26. drop `w'hstenr
27. * Combine jbtu and jbou to jbmunio
. tab `w'jbtu `w'jbou
28. gen `w'jbmunio=`w'jbtu
29. replace `w'jbmunio=1 if `w'jbou==1
30. drop `w'jbtu `w'jbou
31. }
32. else if "`w'"!="a" {
33. recode `w'hstenr (1=1) (2/3=2) (4=3), gen(`w'hstenur)
34. drop `w'hstenr
35. }
36.
. save "`working'\wave_`w'.dta", replace
37. renpfix `w'
38. save "`working'\wave_`w'_trim.dta", replace
39. }
wave: a
commonvar1: xwaveid ahhrhid ahhpixid ahhresp ahhstate ahhsos aancob
alosathl ahgsex ahgage aedhigh amrcurr ahglth ajbhruc
commonvar2: aesdtl aesbrd ajbmhruc ajbn aehtjbyr ajbempt ajbmcnt ajbmo62
ajbmi62 ajbmsall ajbemlyr ajbemlwk ajboccyr ajbocckw
commonvar3: afmfo62 afmmo62 awsce awscei awscef awscme awscmei awscmef
awscoe awscoei awscoef awsfe awsfei awsfef
specvar: ahstenur ajbmunio

```

wave	Freq.	Percent	Cum.
1	19,914	100.00	100.00
Total	19,914	100.00	

(note: file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_a.dta not found)
file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_a.dta saved
(note: file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_a_trim.dta not found)
file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_a_trim.dta saved

```

wave: b
commonvar1: xwaveid bhhrhid bhhpixid bhhresp bhhstate bhhsos bancob
blosathl bhgsex bhgage bedhigh bmrcurr bhglth bjbhruc
commonvar2: besdtl besbrd bjbmhruc bjbn behtjbyr jbjempt jbjmcnt jbjmo62
bjbmi62 bjbmsall bjbemlyr bjbemlwk bjboccyr bjbocckw
commonvar3: bfmfo62 bfmmo62 bwsce bwscei bwscef bwscme bwscmei bwscmef
bwscoe bwscoei bwscoef bwsfe bwsfei bwsfef
specvar: bhstenur bjbmunio bpjmsemp

```

wave	Freq.	Percent	Cum.
2	18,295	100.00	100.00
Total	18,295	100.00	

(491 differences between bhstenr and bhstenur)
(note: file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_b.dta not found)
file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_b.dta saved

(note: file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_b_trim.dta not found)
file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_b_trim.dta saved

wave: c

commonvar1: xwaveid chhrhid chhpxid chhresp chhstate chhsos cancob
closathl chgsex chgage cedhigh cmrcurr chglth cjbhruc
commonvar2: cesdtl cesbrd cjbmhruc cjbnc cehtjbyr cjbempt cjbmcnt cjbmo62
cjbmi62 cjbmsall cjbemlyr cjbemlwk cjboccyr cjbocckw
commonvar3: cfmmo62 cfmmo62 cwsce cwscei cwscef cwsme cwsmei cwscef
cwscoe cwscoei cwscoef cwsfe cwsfei cwsfef
specvar: chstenr cjbmunio cpjmsemp

wave	Freq.	Percent	Cum.
-----+-----			
3	17,690	100.00	100.00
-----+-----			
Total	17,690	100.00	

(432 differences between chstenr and chstenur)

(note: file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_c.dta not found)
file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_c.dta saved

(note: file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_c_trim.dta not found)
file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_c_trim.dta saved

wave: d

commonvar1: xwaveid dhhrhid dhhrpxid dhhrresp dhhrstate dhhsos dancob
dlosathl dhgsex dhgage dedhigh dmrcurr dhglth djbhruc
commonvar2: desdtl desbrd djbmhruc djbn dehtjbyr djbempt djbmcnt djbmo62
djbm62 djbm62 djbm62 djbm62 djbm62 djbm62 djbm62
commonvar3: dfmmo62 dfmmo62 dwsce dwscei dwscef dwsme dwsmei dwscef
dwscoe dwscoei dwscoef dwsfe dwsfei dwsfef
specvar: dhstenr djbmunio dpjmsemp

wave	Freq.	Percent	Cum.
-----+-----			
4	17,209	100.00	100.00
-----+-----			
Total	17,209	100.00	

(411 differences between dhstenr and dhstenur)

(note: file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_d.dta not found)
file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_d.dta saved

(note: file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_d_trim.dta not found)
file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_d_trim.dta saved

wave: e

commonvar1: xwaveid ehhrhid ehhrpxid ehhrresp ehhrstate ehhsos eancob
elosathl ehgsex ehgage eedhigh emrcurr ehglth ejbhruc
commonvar2: eesdtl eesbrd ejbmhruc ejbn eehtjbyr ejbempt ejbmcnt ejbmo62
ejbmi62 ejbmsall ejbemlyr ejbemlwk ejboccyr ejbocckw
commonvar3: efmmo62 efmmo62 ewsce ewscei ewscef ewsme ewsmei ewscef
ewscoe ewscoei ewscoef ewsfe ewsfei ewsfef
specvar: ehstenr ejbmunio epjmsemp

wave	Freq.	Percent	Cum.
5	17,468	100.00	100.00

Total | 17,468 100.00
 (458 differences between ehstenr and ehstenur)
 (note: file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_e.dta not found)
 file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_e.dta saved
 (note: file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_e_trim.dta not found)
 file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_e_trim.dta saved

wave: f
 commonvar1: xwaveid fhhrhid fhhpixid fhhrsp fhstate fhhsos fancob
 flosathl fhgsex fhgage fedhigh fmrcurr fhglth fjbhruc
 commonvar2: fesdtl fesbrd fjbmhruc fjbfn fehtjbyr fjbemtp fjbmcnt fjbmo62
 fjbmi62 fjbmsall fjbemlyr fjbemlw fjboccyr fjbocck
 commonvar3: ffmfo62 ffmmo62 fwsce fwscei fwscef fwsme fwsmei fwscef
 fwscoe fwscoei fwscoef fwsfe fwsfei fwsfef
 specvar: fhstenr fjbmunio fpjmsemp

wave	Freq.	Percent	Cum.
6	17,454	100.00	100.00

Total | 17,454 100.00
 (463 differences between fhstenr and fhstenur)
 (note: file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_f.dta not found)
 file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_f.dta saved
 (note: file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_f_trim.dta not found)
 file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_f_trim.dta saved

wave: g
 commonvar1: xwaveid ghhrhid ghhpixid ghhrsp ghstate ghhsos gancob
 glosathl ghgsex ghgage gedhigh gmrcurr ghglth gjbhruc
 commonvar2: gesdtl gesbrd gjbmhruc gjbn gehtjbyr gjbemtp gjbmcnt gjbmo62
 gjbmi62 gjbmsall gjbemlyr gjbemlw gjboccyr gjbocck
 commonvar3: gfmfo62 gfmmo62 gwsce gwscei gwscef gwsme gwsmei gwscef
 gwscoe gwscoei gwscoef gwsfe gwsfei gwsfef
 specvar: ghstenr gjbmunio gpjmsemp

wave	Freq.	Percent	Cum.
7	17,280	100.00	100.00

Total | 17,280 100.00
 (469 differences between ghstenr and ghstenur)
 (note: file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_g.dta not found)
 file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_g.dta saved

(note: file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_g_trim.dta not found)
 file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_g_trim.dta saved

wave: h

commonvar1: xwaveid hhhrhid hhhpxid hhhresp hhhstate hhsos hancob
 hlosathl hhgsex hgage hedhigh hmrcurr hghlth hjbhruc
 commonvar2: hesdtl hesbrd hjbmhruc hjbn hehtjbyr hjbempt hjbmcnt hjbmo62
 hjbmi62 hjbmsall hjbemlyr hjbemlwk hjboccyr hjbocckw
 commonvar3: hfmfo62 hfmmo62 hwsce hwscei hwscef hwscei hwscei hwscef
 hwscoe hwscoei hwscoef hwsfe hwsfe i hwsfef
 specvar: hhstenr hbjmunio hpjmsemp

wave	Freq.	Percent	Cum.
8	17,144	100.00	100.00
Total	17,144	100.00	

(493 differences between hhstenr and hhstenur)

(note: file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_h.dta not found)
 file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_h.dta saved

(note: file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_h_trim.dta not found)
 file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov 2011\Exercises\wave_h_trim.dta saved

wave: i

commonvar1: xwaveid ihhrhid ihhpxid ihhresp ihhstate ihhsos iancob
 ilosathl ihgsex ihgage iedhigh imrcurr ihghlth ijbhruc
 commonvar2: iesdtl iesbrd ijbmhruc ijbni iehtjbyr ijbempt ijbmcnt ijbmo62
 ijbmi62 ijbmsall ijbemlyr ijbemlwk ijboccyr ijbocckw
 commonvar3: ifmfo62 ifmmo62 iwsce iwscei iwscef iwscei iwscei iwscef
 iwscoe iwscoei iwscoef iwsfe iwsfe iwsfef
 specvar: ihstenr ijbtu ijbou ipjmsemp

wave	Freq.	Percent	Cum.
9	17,630	100.00	100.00
Total	17,630	100.00	

(472 differences between ihstenr and ihstenur)

C19a Belong to trade association	C19b Belongs to other union or trade association	union	[-10] Non	[-3] Dont	[-1] Not	[1] Other	[2]
Not a	Total						
[-10] Non-responding	4,329		4,329	0	0	0	
0	4,329						
[-3] Dont know	0		0	12	0	1	
17	30						
[-1] Not asked	0		0	0	4,724	0	
0	4,724						
[1] Trade union membe	0		0	0	1,685	0	
0	1,685						

```
[2] Not a trade union |          0          8          0          434
6,420 |          6,862
```

```
-----+-----
-----+-----
Total |          4,329          20          6,409          435
6,437 |          17,630
```

```
(435 real changes made)
(note: file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov
2011\Exercises\wave_i.dta not found)
file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov
2011\Exercises\wave_i.dta saved
(note: file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov
2011\Exercises\wave_i_trim.dta not found)
file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov
2011\Exercises\wave_i_trim.dta saved
```

```
.
.
.
. *****
. * Create unbalanced long file
. *
. *****
. foreach w in a b c d e f g h i {
2.   if "`w'"=="a" {
3.     use "`working'\wave_`w'_trim.dta", clear
4.   }
5.   else {
6.     append using "`working'\wave_`w'_trim.dta"
7.   }
8. }
jbmunio was byte now float

. sort xwaveid wave

. * Add on useful masterfile information
. merge m:1 xwaveid using "`origdata'\Master_i90c.dta", keepusing(xwaveid
ivwptn enumptn hhsm sex)
(label AHHRESP already defined)
(label BHHRESP already defined)
(label CHHRESP already defined)
(label DHHRESP already defined)
(label EHHRESP already defined)
(label FHHRESP already defined)
(label GHHRESP already defined)
(label HHHRESP already defined)
(label IHHRESP already defined)

Result                                # of obs.
-----
not matched                            0
matched                                160,084  (_merge==3)
-----

. drop _merge

. * Keep observations for each person in the waves interviewed
```

```

. keep if substr(ivwptn,wave,1)=="X"
(43399 observations deleted)

. save "`working'\longperson_unbal.dta", replace
file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov
2011\Exercises\longperson_unbal.dta saved

. * Examine data *
. tab wave hstenur

```

	wave	[-4] Refu	R2 Own, Rent or live rent free [-3] Dont	[1] Own /	[2] Rent	[3] Live
Total						
13,969	1	0	0	10,076	3,573	320
13,041	2	3	0	9,429	3,265	344
12,728	3	0	0	9,144	3,262	322
12,408	4	2	0	8,855	3,232	319
12,759	5	2	0	8,994	3,411	352
12,905	6	4	0	9,029	3,521	351
12,789	7	1	1	8,958	3,479	350
12,785	8	5	0	8,949	3,474	357
13,301	9	10	7	9,177	3,740	367
116,685	Total	27	8	82,611	30,957	3,082

```

. tab wave jbmunio

```

	wave	[-4] Refu	E20 Belong to trade union or employee association [-3] Dont	[-1] Not	[1] Trade	[2] Not a
Total						
13,969	1	1	64	5,444	2,314	6,146
13,041	2	0	67	4,953	2,091	5,930
12,728	3	0	62	4,737	2,070	5,859
12,408	4	1	58	4,586	2,024	5,739
12,759	5	18	50	4,512	2,078	6,101
12,905	6	1	43	4,548	2,046	6,267

12,789	7	3	32	4,447	1,912	6,395
12,785	8	21	56	4,416	1,864	6,428
13,301	9	0	29	4,724	2,120	6,428

116,685	Total	45	461	42,367	18,519	55,293

```
. tab wave hgsex, missing
```

wave	HF3 Sex		Total
	[1] Male	[2] Femal	
1	6,634	7,335	13,969
2	6,222	6,819	13,041
3	6,034	6,694	12,728
4	5,872	6,536	12,408
5	6,029	6,730	12,759
6	6,079	6,826	12,905
7	6,003	6,786	12,789
8	6,021	6,764	12,785
9	6,318	6,983	13,301

Total	55,212	61,473	116,685

```
. browse xwaveid wave hgsex hgage ivwptn enumptn hhsm
```

```
.
. *****
. * Create balanced long file
. *
. *****
. use "`working'\longperson_unbal.dta", clear

. * Use ivwptn to identify people interviewed every wave (when add extra
wave, need to increase Xs)
. * There is one character for each wave and X=interviewed, O=non-
response, C=child, -=dead or overseas;
. keep if ivwptn=="XXXXXXXX"
(47196 observations deleted)

. save "`working'\longperson_bal.dta", replace
file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov
2011\Exercises\longperson_bal.dta saved

.
. *****
. * Create unbalanced wide file
. *
. *****
. foreach w in a b c d e f g h i {
. 2.   if "`w'"=="a" {
. 3.   use "`working'\wave_`w'.dta", clear
```

```

4. drop wave
5. }
6. else {
7. merge 1:1 xwaveid using "`working'\wave_`w'.dta"
8. drop wave _merge
9. }
10. }

```

```

Result                                     # of obs.
-----
not matched                               3,881
  from master                             2,750  (_merge==1)
  from using                              1,131  (_merge==2)

matched                                   17,164  (_merge==3)
-----

```

```

Result                                     # of obs.
-----
not matched                               5,389
  from master                             4,372  (_merge==1)
  from using                              1,017  (_merge==2)

matched                                   16,673  (_merge==3)
-----

```

```

Result                                     # of obs.
-----
not matched                               6,645
  from master                             5,749  (_merge==1)
  from using                               896   (_merge==2)

matched                                   16,313  (_merge==3)
-----

```

```

Result                                     # of obs.
-----
not matched                               7,382
  from master                             6,436  (_merge==1)
  from using                               946   (_merge==2)

matched                                   16,522  (_merge==3)
-----

```

```

Result                                     # of obs.
-----
not matched                               8,352
  from master                             7,401  (_merge==1)
  from using                               951   (_merge==2)

matched                                   16,503  (_merge==3)
-----

```

```

Result                                     # of obs.
-----
not matched                               9,295
  from master                             8,435  (_merge==1)
  from using                               860   (_merge==2)

```

```
matched 16,420 (_merge==3)
-----
```

```
Result # of obs.
-----
```

```
not matched 10,213
  from master 9,392 (_merge==1)
  from using 821 (_merge==2)
```

```
matched 16,323 (_merge==3)
-----
```

```
Result # of obs.
-----
```

```
not matched 10,898
  from master 9,902 (_merge==1)
  from using 996 (_merge==2)
```

```
matched 16,634 (_merge==3)
-----
```

```
. * Add on useful masterfile information
. merge 1:1 xwaveid using "`origdata'\Master_i90c.dta", keepusing(xwaveid
ivwptn enumptn hhsm)
(label AHHRESP already defined)
(label BHHRESP already defined)
(label CHHRESP already defined)
(label DHHRESP already defined)
(label EHHRESP already defined)
(label FHHRESP already defined)
(label GHHRESP already defined)
(label HHHRESP already defined)
(label IHHRESP already defined)
```

```
Result # of obs.
-----
not matched 0
matched 27,532 (_merge==3)
-----
```

```
. drop _merge

. * Keep people if ever been interviewed
. keep if strpos(ivwptn,"X")>0
(7079 observations deleted)

. save "`working'\wideperson_unbal.dta", replace
file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov
2011\Exercises\wideperson_unbal.dta saved

. * Examine data *
. browse xwaveid ahgsex ahgage bhgage chgage ivwptn enumptn hhsm

.
. *****
. * Create balanced wide file
*
```

```

. *****
. use "`working'\wideperson_unbal.dta", clear

. * Use ivwptn to identify people interviewed every wave (when add extra
wave, need to increase Xs
. keep if ivwptn=="XXXXXXXXXX"
(12732 observations deleted)

. save "`working'\wideperson_bal.dta", replace
file C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov
2011\Exercises\wideperson_bal.dta saved

.
.
. *****
. * Delete temporary files created
*
. *****
. foreach w in a b c d e f g h i {
2.   erase "`working'\wave_`w'.dta"
3.   erase "`working'\wave_`w'_trim.dta"
4. }

. clear

.
. set more on

. log close
      name: <unnamed>
      log:  C:\Users\nw\Documents\HILDA Project\Training\Melbourne Nov
2011\Exercises\ex0.log
      log type: text
      closed on:   8 Nov 2011, 09:29:08
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```