
Subject: Re: FAMILY STRUCTURE

Posted by [Bridgette-DHS](#) on Mon, 14 Aug 2023 15:50:43 GMT

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Following is a response from Senior DHS staff member, Tom Pullum:

We apologize for the delay in this reply, due to travel. I don't have time to give two solutions to the same problem so will just show how you can develop measures of household structure using egen and the PR file. You will end up with one line per household. Measures of structure should be limited to household members who are de jure. If the household head is not de jure (yes, this can happen) then the household drops out. I work out a slightly different example, but you should be able to generalize it.

The first step is to construct binary variables for the relation to head codes (hv101), with extensions (if needed) to include marital status or other characteristics. Then you add up those binary variables within the household, using egen total, to see whether certain types of potential household members are, or are not, present. Those totals will be added to every case in the household. Then reduce to just the household head to get one record per household. Let us know if you have further questions.

- * Identify households with this structure:
- * Spouse of head not present; children of head present; all children of head are unmarried
- * Household structure is defined entirely in terms of de jure household members (hv102=1)

* head: hv101=1; spouse, hv101=2, child: hv101=3

* unmarried: hv115=0

```
use "...IAPR7EFL.DTA", clear
```

```
keep if hv102==1
```

```
gen spouse=0
```

```
replace spouse=1 if hv101==2
```

```
gen child=0
```

```
replace child=1 if hv101==3
```

```
gen unmarried_child=0
```

```
replace unmarried_child=1 if hv101==3 & hv115==0
```

```
egen nspouse =total(spouse), by(hv024 hv001 hv002)
```

```
egen nchild =total(child), by(hv024 hv001 hv002)
```

```
egen nunmarried_child=total(unmarried_child), by(hv024 hv001 hv002)
```

* reduce to one line per household

```
keep if hv101==1
```

```
drop spouse child unmarried_child
```

```
gen sex_of_head=hv104
gen age_of_head=hv105
gen spouse_absent=0
replace spouse_absent=1 if nspouse==0
```

```
rename nchild nchildren
rename nunmarried_child nunmarried_children
gen nmarried_children=nchildren-nunmarried_children
```

```
tab sex_of_head spouse_absent if nchildren>0 & nmarried_children==0
```

* The households with the desired structure will be those with
* spouse_absent=1, nchildren>0, and nmarried_children=0.