Title

> **frame put** — Copy selected variables or observations to a new frame

Description

`frame put` copies a subset of variables or observations from the current frame to the specified frame. It works much like Stata's `keep` command (see [D] **drop**), except that the data in the current frame are left unchanged, while the selected variables or observations are copied to a new frame.

Quick start

Put variables v1, v2, and v3 from the current frame into new frame fr1
    frame put v1 v2 v3, into(fr1)

Put all variables whose name begins with v into new frame fr2
    frame put v*, into(fr2)

Put all observations where v1 is not missing into new frame fr3
    frame put if !missing(v1), into(fr3)

Put the first observation from each cluster identified by cvar into new frame fr4
    by cvar: frame put if _n==1, into(fr4)

Menu

Data > Frames Manager

Syntax

Copy selected variables from the current frame to a new frame

   frame put *varlist*, into(*newframename*)

Copy observations that satisfy specified condition from the current frame to a new frame

   frame put [*varlist*] *if* , into(*newframename*)

Copy a range of observations from the current frame to a new frame

   frame put [*varlist*] *in* [*if*], into(*newframename*)

by is allowed with the second syntax of `frame put`; see [D] **by**.

Remarks and examples

There are three main workflows for operating on a subset of data you already have in memory. One is to make use of Stata's `if` and `in` qualifiers with your commands to restrict the observations to be used. Another is to use `preserve` to make a temporary copy of the data in memory, then use `keep` and `drop` to make a subset of those data for analysis, and then to use `restore` to bring the original data back. Finally, you can leave the data in memory unchanged and use `frame put` to place a subset of the data in another frame for analysis. That frame can then be dropped, saved, or left in memory for further analysis.

`frame put` copies all variable and value labels, characteristics, and notes for any variables copied to the new frame.

▷ Example 1

To demonstrate `frame put`, we start with data from the 1980 U.S. Census.

```
. use https://www.stata-press.com/data/r18/census
(1980 Census data by state)

. describe

Contains data from https://www.stata-press.com/data/r18/census.dta
 Observations:          50                  1980 Census data by state
    Variables:          13                  6 Apr 2022 15:43
─────────────────────────────────────────────────────────────────────────────
Variable      Storage   Display    Value
    name         type    format    label      Variable label
─────────────────────────────────────────────────────────────────────────────
state         str14     %-14s                 State
state2        str2      %-2s                  Two-letter state abbreviation
region        int       %-8.0g     cenreg     Census region
pop           long      %12.0gc               Population
poplt5        long      %12.0gc               Pop, < 5 year
pop5_17       long      %12.0gc               Pop, 5 to 17 years
pop18p        long      %12.0gc               Pop, 18 and older
pop65p        long      %12.0gc               Pop, 65 and older
popurban      long      %12.0gc               Urban population
medage        float     %9.2f                 Median age
death         long      %12.0gc               Number of deaths
marriage      long      %12.0gc               Number of marriages
divorce       long      %12.0gc               Number of divorces
─────────────────────────────────────────────────────────────────────────────

Sorted by:
```

We put data from several variables for all states with a population greater than 5,000,000 into new frame pop5.

```
. frame put state region pop* medage death if pop > 5000000, into(pop5)

. frame pop5: describe
Contains data
 Observations:            14                        1980 Census data by state
    Variables:            10
─────────────────────────────────────────────────────────────────────────────
Variable        Storage    Display     Value
    name           type     format     label      Variable label
─────────────────────────────────────────────────────────────────────────────
state           str14      %-14s                   State
region          int        %-8.0g      cenreg      Census region
pop             long       %12.0gc                 Population
poplt5          long       %12.0gc                 Pop, < 5 year
pop5_17         long       %12.0gc                 Pop, 5 to 17 years
pop18p          long       %12.0gc                 Pop, 18 and older
pop65p          long       %12.0gc                 Pop, 65 and older
popurban        long       %12.0gc                 Urban population
medage          float      %9.2f                   Median age
death           long       %12.0gc                 Number of deaths
─────────────────────────────────────────────────────────────────────────────
Sorted by:
     Note: Dataset has changed since last saved.
```

◁

Also see

[D] **frames intro** — Introduction to frames

[D] **frames** — Data frames

[D] **drop** — Drop variables or observations

[D] **frame copy** — Make a copy of a frame

[P] **frame post** — Post results to dataset in another frame