

recast — Change storage type of variable

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Syntax

```
recast type varlist [ , force ]
```

where *type* is byte, int, long, float, double, str1, str2, . . . , str2045, or strL.

Description

`recast` changes the storage type of the variables identified in *varlist* to *type*.

Option

`force` makes `recast` unsafe by causing the variables to be given the new storage type even if that will cause a loss of precision, introduction of missing values, or, for string variables, the truncation of strings.

`force` should be used with caution. `force` is for those instances where you have a variable saved as a `double` but would now be satisfied to have the variable stored as a `float`, even though that would lead to a slight rounding of its values.

Remarks and examples

[stata.com](#)

See [\[U\] 12 Data](#) for a description of storage types. Also see [\[D\] compress](#) and [\[D\] destring](#) for alternatives to `recast`.

► Example 1

`recast` refuses to change a variable's type if that change is inappropriate for the values actually stored, so it is always safe to try:

```
. use http://www.stata-press.com/data/r13/auto
(1978 Automobile Data)
. describe headroom
      storage   display   value
variable name  type    format    label    variable label
-----
headroom      float   %6.1f                Headroom (in.)
. recast int headroom
headroom:  37 values would be changed; not changed
```

Our attempt to change `headroom` from a `float` to an `int` was ignored—if the change had been made, 37 values would have changed. Here is an example where the type can be changed:

```
. describe mpg
      storage   display   value
variable name  type    format    label    variable label
-----
mpg            int     %8.0g                Mileage (mpg)
```

```
. recast byte mpg
. describe mpg
```

variable name	storage type	display format	value label	variable label
mpg	byte	%8.0g		Mileage (mpg)

recast works with string variables as well as numeric variables, and it provides all the same protections:

```
. describe make
```

variable name	storage type	display format	value label	variable label
make	str18	%-18s		Make and Model

```
. recast str16 make
make: 2 values would be changed; not changed
```

recast can be used both to promote and to demote variables:

```
. recast str20 make
. describe make
```

variable name	storage type	display format	value label	variable label
make	str20	%-20s		Make and Model

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Also see

[D] [compress](#) — Compress data in memory

[D] [destring](#) — Convert string variables to numeric variables and vice versa

[U] [12.2.2 Numeric storage types](#)

[U] [12.4 Strings](#)