

## Description

`fvexpand` expands a factor varlist to the corresponding expanded, specific varlist. *varlist* may be general or specific and even may already be expanded.

## Syntax

```
fvexpand [varlist] [if] [in]
```

*varlist* may contain factor variables and time-series operators; see [\[U\] 11.4.3 Factor variables](#) and [\[U\] 11.4.4 Time-series varlists](#).

`collect` is allowed; see [\[U\] 11.1.10 Prefix commands](#).

## Remarks and examples

An example of a general factor varlist is `mpg i.foreign`. The corresponding specific factor varlist would be `mpg i(0 1)b0.foreign` if `foreign` took on the values 0 and 1 in the data.

A specific factor varlist is specific with respect to a given problem, which is to say, a given dataset and subsample. The specific varlist identifies the values taken on by factor variables and the base.

Factor varlist `mpg i(0 1)b0.foreign` is specific. The same varlist could be written as `mpg i0b.foreign i1.foreign`, so that is specific, too. The first is unexpanded and specific. The second is expanded and specific.

`fvexpand` takes a general or specific (expanded or unexpanded) factor varlist, along with an optional `if` or `in`, and returns a fully expanded, specific varlist.

## Stored results

`fvexpand` stores the following in `r()`:

Macros

<code>r(varlist)</code>	the expanded, specific varlist
<code>r(fvops)</code>	true if <i>varlist</i> contains factor variables
<code>r(tsops)</code>	true if <i>varlist</i> contains time-series operators

## Also see

[\[R\] fvarevar](#) — Factor-variables operator programming command

[\[U\] 11.4.3 Factor variables](#)

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