

Selecting time-span functions

[Contents](#) [Functions](#) [Also see](#)

Contents

`tin(d_1, d_2)` *true* if $d_1 \leq t \leq d_2$, where t is the time variable previously `tsset`
`twithin(d_1, d_2)` *true* if $d_1 < t < d_2$, where t is the time variable previously `tsset`

Functions

`tin(d_1, d_2)`

Description: *true* if $d_1 \leq t \leq d_2$, where t is the time variable previously `tsset`

You must have previously `tsset` the data to use `tin()`; see [TS] `tsset`. When you `tsset` the data, you specify a time variable, t , and the format on t states how it is recorded. You type d_1 and d_2 according to that format.

If t has a `%tc` format, you could type `tin(5jan1992 11:15, 14apr2002 12:25)`.

If t has a `%td` format, you could type `tin(5jan1992, 14apr2002)`.

If t has a `%tw` format, you could type `tin(1985w1, 2002w15)`.

If t has a `%tm` format, you could type `tin(1985m1, 2002m4)`.

If t has a `%tq` format, you could type `tin(1985q1, 2002q2)`.

If t has a `%th` format, you could type `tin(1985h1, 2002h1)`.

If t has a `%ty` format, you could type `tin(1985, 2002)`.

Otherwise, t is just a set of integers, and you could type `tin(12, 38)`.

The details of the `%t` format do not matter. If your t is formatted `%tdnn/dd/yy` so that `5jan1992` displays as `1/5/92`, you would still type the date in day–month–year order: `tin(5jan1992, 14apr2002)`.

Domain d_1 : date or time literals or strings recorded in units of t previously `tsset` or blank to indicate no minimum date

Domain d_2 : date or time literals or strings recorded in units of t previously `tsset` or blank to indicate no maximum date

Range: 0 and 1, 1 \Rightarrow *true*

`twithin(d_1, d_2)`

Description: *true* if $d_1 < t < d_2$, where t is the time variable previously `tsset`

See `tin()` above; `twithin()` is similar, except the range is exclusive.

Domain d_1 : date or time literals or strings recorded in units of t previously `tsset` or blank to indicate no minimum date

Domain d_2 : date or time literals or strings recorded in units of t previously `tsset` or blank to indicate no maximum date

Range: 0 and 1, 1 \Rightarrow *true*

Also see

[D] [egen](#) — Extensions to generate

[M-5] [intro](#) — Mata functions

[U] [13.3 Functions](#)