Title
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> **Selecting time-span functions**

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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).

If t has a %tb format, you could type tin(5jan1992, 14apr2002). This will work as expected even if the arguments of tin() are not business days.

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 %tdmm/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 ⇒ *true*

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`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

[FN] **Functions by category**

[D] **egen** — Extensions to generate

[D] **generate** — Create or change contents of variable

[U] **13.3 Functions**