Selecting time-span functions

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true if \( d_1 \leq t \leq d_2 \), where \( t \) is the time variable previously \texttt{tsset}

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true if \( d_1 < t < d_2 \), where \( t \) is the time variable previously \texttt{tsset}

Functions

\[ \text{tin}(d_1, d_2) \]
Description: true if \( d_1 \leq t \leq d_2 \), where \( t \) is the time variable previously \texttt{tsset}

You must have previously \texttt{tsset} the data to use \texttt{tin()}; see [TS] \texttt{tsset}. When you \texttt{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 \texttt{tin(5jan1992 11:15, 14apr2002 12:25)}.

If \( t \) has a \%td format, you could type \texttt{tin(5jan1992, 14apr2002)}.

If \( t \) has a \%tw format, you could type \texttt{tin(1985w1, 2002w15)}.

If \( t \) has a \%tm format, you could type \texttt{tin(1985m1, 2002m4)}.

If \( t \) has a \%tq format, you could type \texttt{tin(1985q1, 2002q2)}.

If \( t \) has a \%th format, you could type \texttt{tin(1985h1, 2002h1)}.

Otherwise, \( t \) is just a set of integers, and you could type \texttt{tin(12, 38)}.

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

Domain \( d_1 \): date or time literals recorded in units of \( t \) previously \texttt{tsset}

Domain \( d_2 \): date or time literals recorded in units of \( t \) previously \texttt{tsset}

Range: 0 and 1, 1 \( \Rightarrow \) \texttt{true}

\[ \text{twithin}(d_1, d_2) \]
Description: true if \( d_1 < t < d_2 \), where \( t \) is the time variable previously \texttt{tsset}

See \texttt{tin()} above; \texttt{twithin()} is similar, except the range is exclusive.

Domain \( d_1 \): date or time literals recorded in units of \( t \) previously \texttt{tsset}

Domain \( d_2 \): date or time literals recorded in units of \( t \) previously \texttt{tsset}

Range: 0 and 1, 1 \( \Rightarrow \) \texttt{true}
Also see

[D] egen — Extensions to generate
[M-5] intro — Mata functions
[U] 13.3 Functions