st_varname() — Obtain variable names from variable indices

**Syntax**

```plaintext
string rowvector  st_varname(real rowvector k)

string rowvector  st_varname(real rowvector k, real scalar tsmap)
```

**Description**

`st_varname(k)` returns the Stata variable names associated with the variable indices stored in `k`. For instance, with the automobile data in memory

```plaintext
names = st_varname((1..3))
```

results in names being "make", "price", "mpg").

`st_varname(k, tsmap)` does the same thing but allows you to specify whether you want the actual or logical variable names of any time-series–operated variables created by the Mata function `st_tsrevar()` (see [M-5] `st_tsrevar()`)) or by the Stata command `tsrevar` (see [TS] `tsrevar`).

`st_varname(k)` is equivalent to `st_varname(k, 0);` actual variable names are returned.

`st_varname(k, 1)` returns logical variable names.

**Remarks and examples**

To understand the actions of `st_varname(k, 1)`, pretend that variable 58 was created by `st_tsrevar()`:

```plaintext
k = st_tsrevar(("gnp", "r", "l.gnp"))
```

Pretend that `k` now contains (12, 5, 58). Variable 58 is a new, temporary variable, containing `l.gnp` values. Were you to ask for the actual names of the variables

```plaintext
actualnames = st_varname(k)
```

actualnames would contain ("gnp", "r", "00004a"), although the name of the last variable will vary because it is a temporary variable. Were you to ask for the logical names,

```plaintext
logicalnames = st_varname(k, 1)
```

you would get back ("gnp", "r", "L.gnp").
Conformability

\texttt{st\_varname}(k, tsmap)

\begin{align*}
k & : 1 \times c \\
tsmap & : 1 \times 1 \text{ (optional)} \\
result & : 1 \times c
\end{align*}

Diagnostics

\texttt{st\_varname}(k) and \texttt{st\_varname}(k, tsmap) abort with error if any element of \( k \) is less than 1 or greater than \texttt{st\_nvar}(); see [M-5] \texttt{st\_nvar}().

Also see

[M-5] \texttt{st\_varindex()} — Obtain variable indices from variable names

[M-5] \texttt{st\_tsrevar()} — Create time-series op.varname variables

[M-4] \texttt{stata} — Stata interface functions