Title

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timer — Time sections of code by recording and reporting time spent

Syntax Description Remarks and examples Stored results Also see

Syntax

Reset timers to zero

```
timer clear [#]
```

Turn a timer on

```
timer on #
```

Turn a timer off

```
timer off #
```

List the timings

```
timer list [#]
```

where # is an integer, 1–100.

Description

`timer` starts, stops, and reports up to 100 interval timers. Results are reported in seconds.

`timer clear` resets timers to zero.

`timer on` begins a timing. `timer off` stops a timing. A timing may be turned on and off repeatedly without clearing, which causes the timer to accumulate.

`timer list` lists the timings. If # is not specified, timers that contain zero are not listed.

Remarks and examples

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`timer` can be used to time sections of code. For instance,

```
program tester
        version ...
        timer clear 1
        forvalues repeat=1(1)100 {
               timer on 1
               mycmd ...
               timer off 1
        }
        timer list 1
end
```

Stored results

`timer list` stores the following in `r()`:

Scalars

`r(t1)`	value of first timer
`r(nt1)`	# of times turned on and off
`r(t2)`	value of second timer
`r(nt2)`	# of times turned on and off
.	
.	
.	
`r(t100)`	value of 100th timer
`r(nt100)`	# of times turned on and off

Only values for which `r(nt#)` $\neq 0$ are stored.

`r()` results produced by other commands are not cleared.

Also see

[P] **rmsg** — Return messages