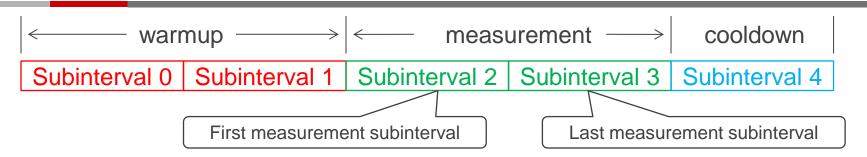
### Statement - [Go]



- [Go] "stepname=random4K, subinterval\_seconds=5, ..."
- The [Go] statement starts the workload threads running a "test step", which is a sequence of "subintervals" each of a duration specified in the subinterval\_seconds parameter, defaulting to 5 seconds.
  - If you have a case for using ivy to measure a restricted set of things much more frequently, we can talk about putting in support.
  - Most of the time 5 seconds is plenty short and if you are going to be doing any tests
    that will run for hours you may want to consider a longer subinterval just to mercifully
    cut down on the size of the csv files by subinterval.
  - Sometimes when you say you want an answer to +/- 1% and the behaviour is a bit noisy, it can take time to see enough to say you are sufficiently confident statistically. (Did you say you wanted "valid" data?)

# Test step = warmup, measure, cooldown





- There must be at least one warmup, one measurement, and one cooldown subinterval.
- Parameter defaults
  - warmup\_seconds = 5 this number is divided by subinterval\_seconds, and rounded up to get the (minimum) number of warmup subintervals.
  - measure\_seconds = 5 also rounded up to the minimum number of measurement subintervals.
  - cooldown\_by\_wp = on If a command device is available for the subsystem under test, the cooldown period
    is extended until write pending is empty.

# For each test step you get:



- A subfolder of the overall test output folder that contains the csv files with one line for each subinterval in that test step.
  - Nested subfolders for each workload data rollup
    - Containing a csv file for each rollup instance, with one line per subinterval.
  - A nested subfolder with raw RAID\_subsystem RMLIB API data.
    - Collected time-synchronized "just before" the end of each subinterval.
- A single line in the overall test results "summary.csv" files.
  - In ivy terminology, this is called a "measurement" line, which represents the rollup from the first to last measurement subintervals.
    - Unless "measure" with specified accuracy timed out then you get an error message line

#### cooldown by wp



- Default: cooldown by wp = on
- Set cooldown\_by\_wp = off
  - When it is valid to carry forward Write Pending dirty data from one test step to the next.
  - This can speed up the next test step tremendously if
    - the next step doesn't stabilize until WP is full,
    - AND if both steps place the SAME things into WP.

## The default [Go] statement



- [go];
  - Default warmup\_seconds = 5
  - Default measure seconds = 60
  - runs at least one cooldown subinterval
    - if you have a command device, continuing more cooldown subintervals until WP is empty.
  - Useful when you are developing an ivyscript workflow and you just want to see quick sample csv files.

### stepname



- On the [Go] statement to start a test step, you can optionally specify "stepname=", which defaults to "step" followed by a four digit step number starting with 0000, so the default name for the first step is step0000.
- Giving a test step a meaningful name is useful when looking at overall measurement summary csv files (analogous to the vdbench "summary.html"), where you get one csv line for each test step.
- Those labels are handy when making Excel charts, as you can use the stepname column as the series name on a chart.