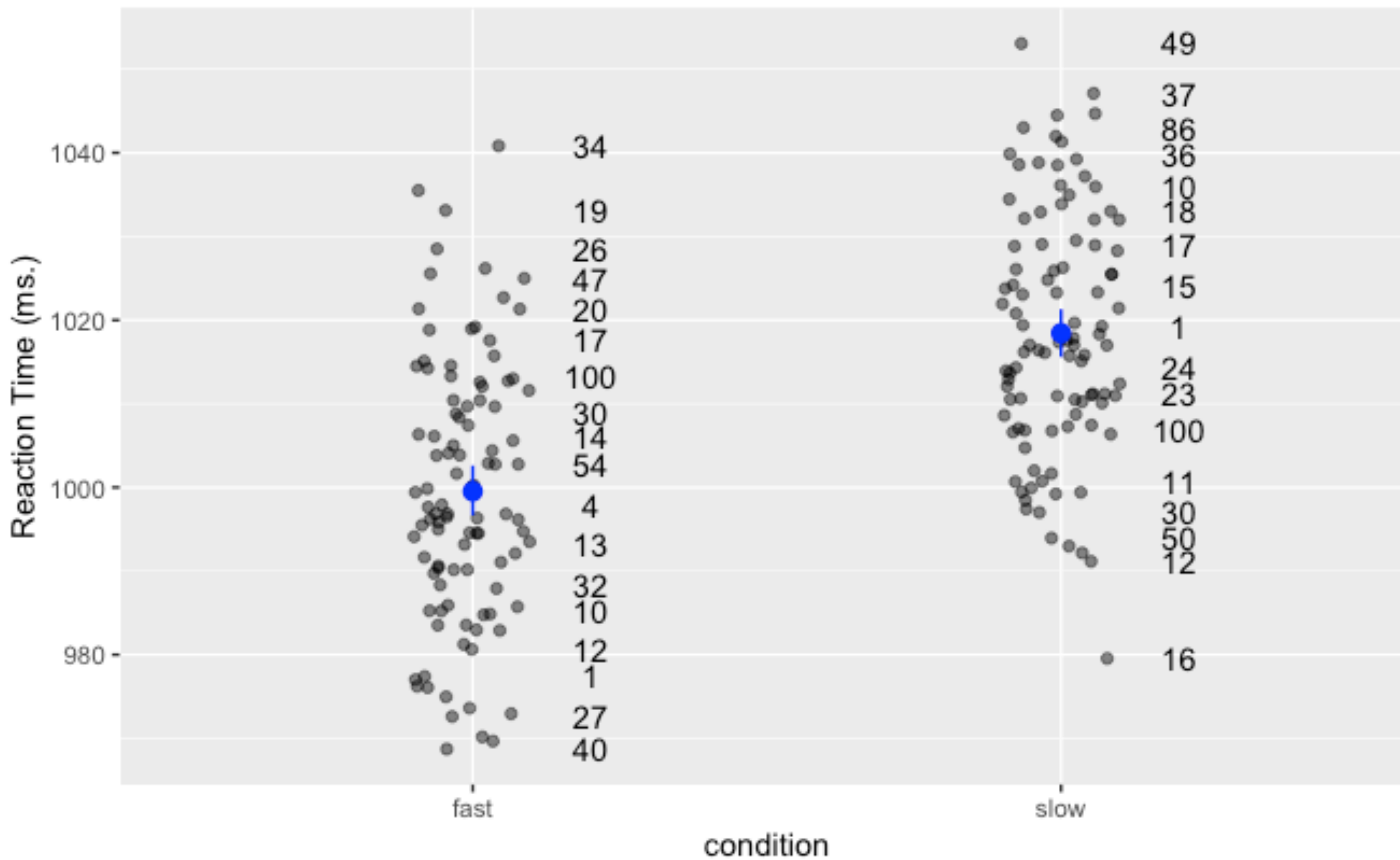

Overall the “Slow” condition RTs are higher than the “Fast” Condition RTs - but we can spot some simulations where the difference is negligible or even goes the wrong way (e.g., Simulation 100). The blue circles corresponds to the overall means and are pretty much bang on 1000 and 1020.

- We can use another loop to run `i` number of independent sample t-tests and to save the results of each test to a new data frame we are calling `result`

```
result <- NULL

for  (i in 1:total_samples) {
  result <- rbind(tidy(t.test(filter(all_data, condition == "fast" & sample == i)$dv,
              filter(all_data, condition == "slow" & sample == i)$dv,
              paired = FALSE)), result)
}
```

```
> result
# A tibble: 100 x 10
   estimate estimate1 estimate2 statistic p.value parameter conf.low conf.high method                  alternative
      <dbl>     <dbl>     <dbl>     <dbl>   <dbl>     <dbl>    <dbl>     <dbl> <chr>                   <chr>
 1     6.5      1013.     1007.     0.364   0.720      20.2    -30.7     43.7  Welch Two Sample t-test two.sided
 2   -15        1000.     1015.    -0.695   0.494      22.0    -59.7     29.7  Welch Two Sample t-test two.sided
 3     7.92     1019.     1011.     0.445   0.661      21.0    -29.1     44.9  Welch Two Sample t-test two.sided
 4   -16.4       984.     1000.    -0.697   0.493      22.0    -65.3     32.5  Welch Two Sample t-test two.sided
 5   -10.8      1002.     1012.    -0.517   0.612      16.9    -54.7     33.2  Welch Two Sample t-test two.sided
 6     7.25     1000.      993      0.359   0.723      20.4    -34.8     49.3  Welch Two Sample t-test two.sided
 7   -35         994.     1030.    -1.66    0.113      20.6    -79.0      8.99 Welch Two Sample t-test two.sided
 8   -27.5       983      1010.    -1.40    0.175      21.8    -68.2     13.2  Welch Two Sample t-test two.sided
 9     4.83     1026.     1021.     0.246   0.808      18.3    -36.3     46.0  Welch Two Sample t-test two.sided
10   -35.8       996.     1032     -1.58    0.130      18.9    -83.2     11.5  Welch Two Sample t-test two.sided
# ... with 90 more rows
```