How to run the benchmarks locally

Run in the browser

```
yarn bazel run modules/benchmarks/src/tree/{name}:devserver
```

```
# e.g. "ng2" tree benchmark:
yarn bazel run modules/benchmarks/src/tree/ng2:devserver
```

Run e2e tests

```
# Run e2e tests of individual applications:
yarn bazel test modules/benchmarks/src/tree/ng2/...
```

```
# Run all e2e tests:
yarn bazel test modules/benchmarks/...
```

Use of *_aot.ts files

The `*_aot.ts` files are used as entry-points within Google to run the benchmark tests. These are still built as part of the corresponding `ng_module` rule.

Specifying benchmark options

There are options that can be specified in order to control how a given benchmark target runs. The following options can be set through test environment variables:

- `PERF_SAMPLE_SIZE`: Benchpress performs measurements until `scriptTime` predictively no longer decreases. It does this by using a simple linear regression with the amount of samples specified. Defaults to 20 samples.
- `PERF_FORCE_GC`: If set to `true`, `@angular/benchpress` will run run the garbage collector before and after performing measurements. Benchpress will measure and report the garbage collection time.
- `PERF_DRYRUN`: If set to `true`, no results are printed and stored in a `json` file. Also benchpress only performs a single measurement (unlike with the simple linear regression).

Here is an example command that sets the `PERF_DRYRUN` option:

```
yarn bazel test modules/benchmarks/src/tree/baseline:perf --test_env=PERF_DRYRUN=true
```