Fast RNN benchmarks

Benchmarks for TorchScript models

For most stable results, do the following: - Set CPU Governor to performance mode (as opposed to energy save) - Turn off turbo for all CPUs (assuming Intel CPUs) - Shield cpus via cset shield when running benchmarks.

Some of these scripts accept command line args but most of them do not because I was lazy. They will probably be added sometime in the future, but the default sizes are pretty reasonable.

Test fastrnns (fwd + bwd) correctness

Test the fastrnns benchmarking scripts with the following: python -m fastrnns.test or run the test independently: python -m fastrnns.test --rnns jit

Run benchmarks

```
python -m fastrnns.bench
should give a good comparison, or you can specify the type of model to run
python -m fastrnns.bench --rnns cudnn aten jit --group rnns
```

Run model profiling, calls nvprof

```
python -m fastrnns.profile
```

should generate nvprof file for all models somewhere. you can also specify the models to generate nvprof files separately:

```
python -m fastrnns.profile --rnns aten jit
```

Caveats

Use Linux for the most accurate timing. A lot of these tests only run on CUDA.