

Generating traces:

After downloading pin:

Set environment:

```
set INTEL_JIT_PROFILER /home/intel_lab14/Downloads/pin
```

1) make necessary changes in pin-3.24-98612-g6bd5931f2-gcc-linux/source/tools/Memory/allcache.cpp file

2) run: `cd pin-3.24-98612-g6bd5931f2-gcc-linux/source/tools/Memory`

3) run: `make allcache.test`

One folder will be created and allcache.so file will be created.

4) find normalization factor:

Run this command to generate traces with time

```
time ../../../../pin -t obj-intel64/allcache.so -- ./benchmark_1.out
```

Take note of time and apply normalization then update allcache.cpp and run following command to generate final traces.

5) `../../../../pin -t obj-intel64/allcache.so -- ./benchmark_3.out`

Then one file named benchmark\_3.out will be generated having traces.

Then give those traces to simulator.

```
# cmake out of source build
```

```
mkdir build
```

```
cd build
```

```
cmake ..
```

```
# Build dramsim3 library and executables
```

```
make -j4
```

Command to run

```
./build/dramsim3main configs/DDR4_8Gb_x8_3200.ini -c 10000000000 -t sample_trace.txt
```