

# Branch Prediction Championship CSE6421

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## Setting Up the Simulation Infrastructure:

1. Download the BPC kit:  
bpc6421.zip (~500M) and save it in your home directory.
2. Unpack the kit:  
gunzip bpc6421.zip  
cd bpc6421
3. There should be four directories: sim, scripts, traces, and results

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4. The sim directory contains the simulator.

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```
cd sim
```

```
make
```

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```
./predictor ../traces/SHORT-INT-1.cbp4.gz
```

5. The scripts directory contains scripts that can help you run your predictor for all traces. Check out the doit.sh file in the scripts directory.

```
cd ../scripts
```

```
./doit.sh
```

6. We will use the AMEAN over all traces as the figure of merit. You can compute this using the getdata.pl script. Usage is as follows.

```
./getdata.pl -d ../results/GSHARE*
```

7. The traces directory contains 20 traces: 10 short traces (~30 million instructions) derived from CBP-1 and 10 long traces(~150 million instructions) derived from SPEC 2006.

### Writing Your Own Branch Predictor:

In your sim directory, there are two files you can modify: **predictor.cc** and **predictor.h**

Only these two files should be submitted with your contest submission. Any changes you make to any other files will not be reflected in our simulator.

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