

Histogram on Recent Runs by EMPv5

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1 Description

This document presents histograms based on the most recent runs of a program under test, called *INC*, over its increasing task lengths.

2 Experiment Notes

Table 1 provides a short description of our experimental runs, on which the following histograms are based.

Machine	Task Length	Description	Time Length
sodb9	INC1~INC1024	Runs of 300 samples	2017-02-09 ~ 2017-02-10 / 2017-02-12 ~ 2017-02-19
sodb10	INC2048	Runs of 300 samples	2017-02-12 ~ 2017-02-20

Table 1: Detailed description of INC data used for histograms

Now we show histograms of elapsed time (ET) and process time (PT) over increasing INC's task lengths.

3 Histograms

This section exhibits histograms on the EMPv5 data obtained when the task length of INC increases from 1 second to 2048 seconds. The detailed description of the base data are from Table 1.

3.1 ET

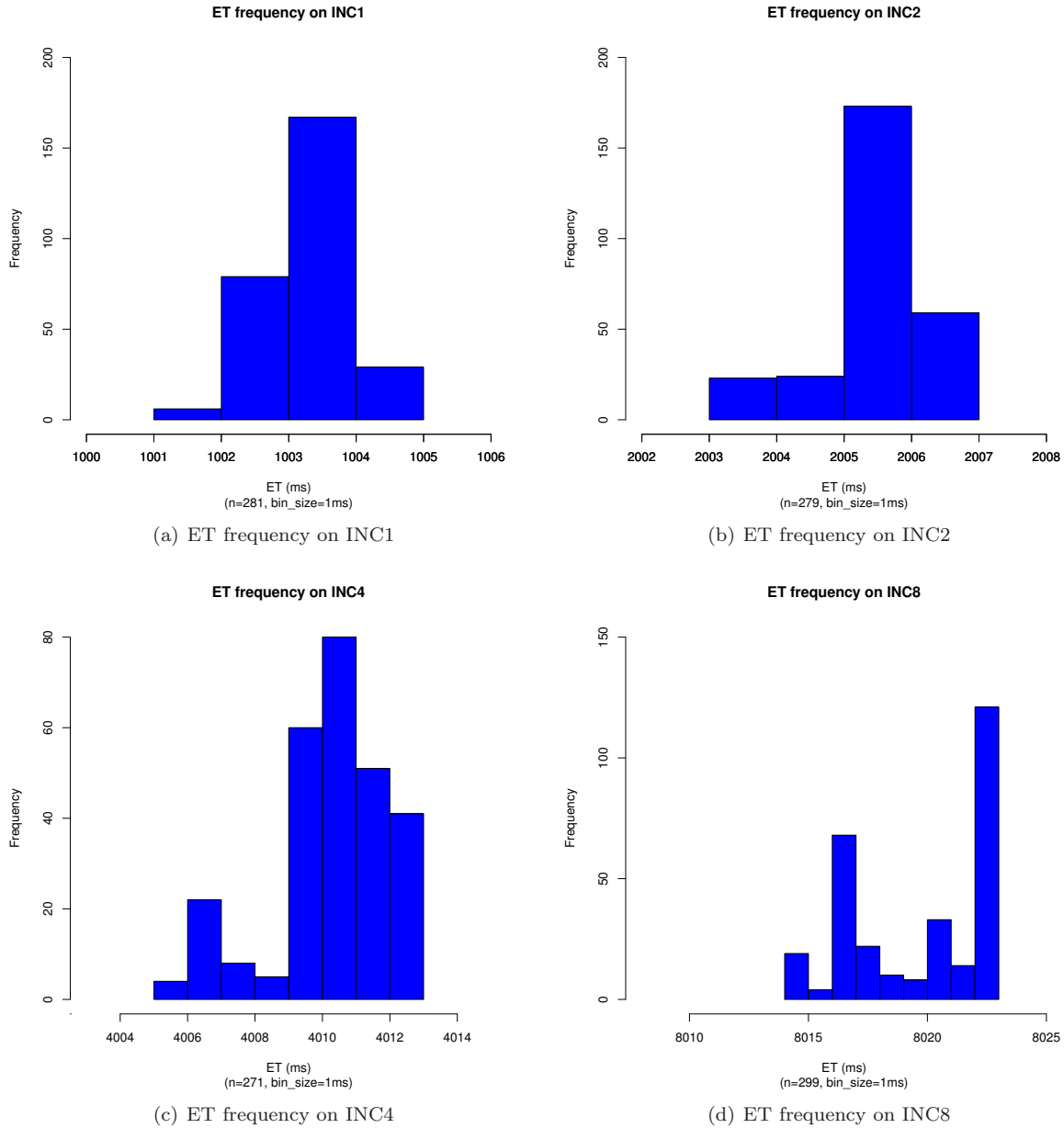
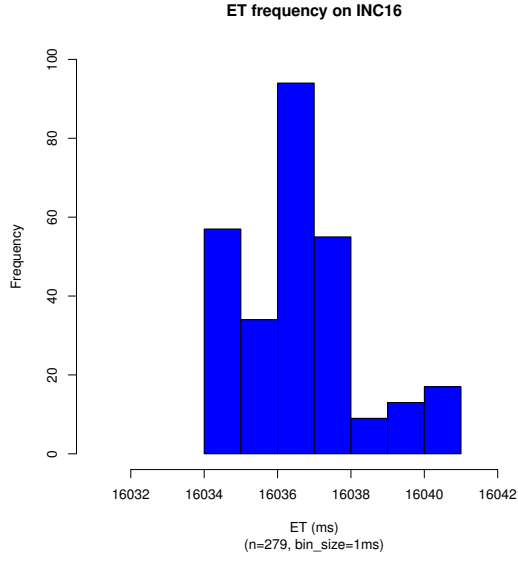
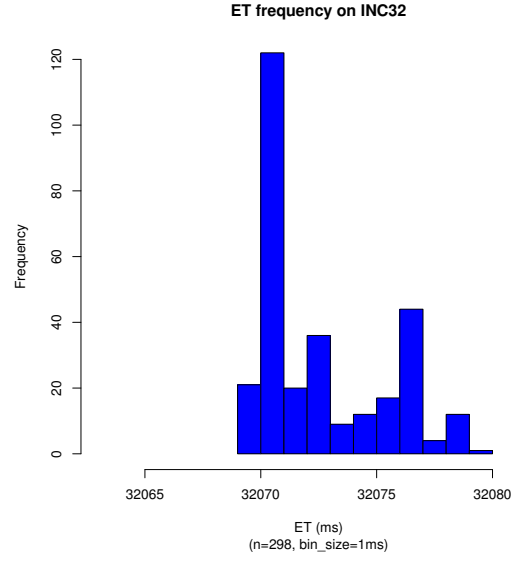


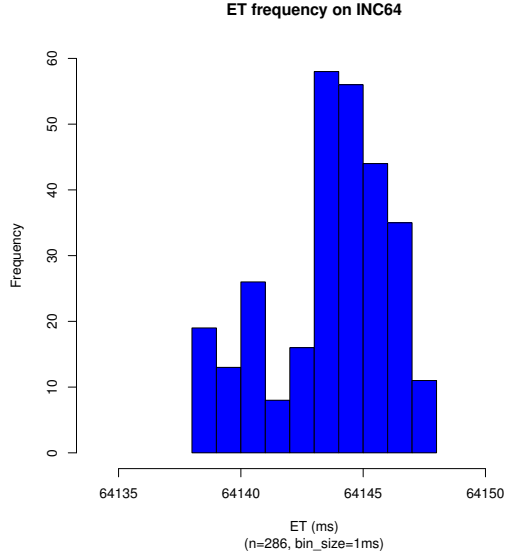
Figure 1: ET Histograms of INC1 ... INC8



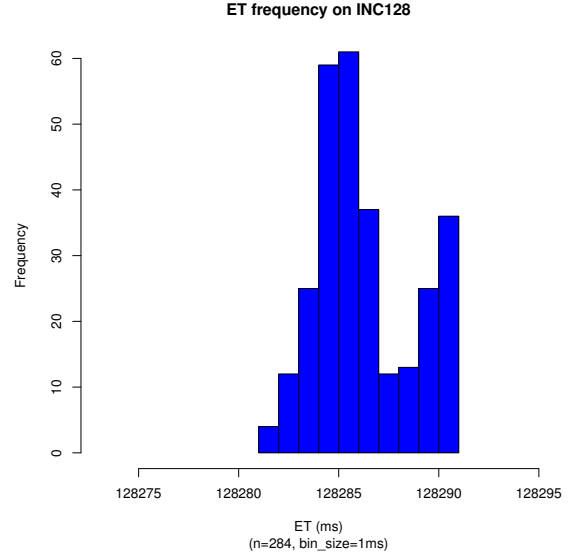
(a) ET frequency on INC16



(b) ET frequency on INC32

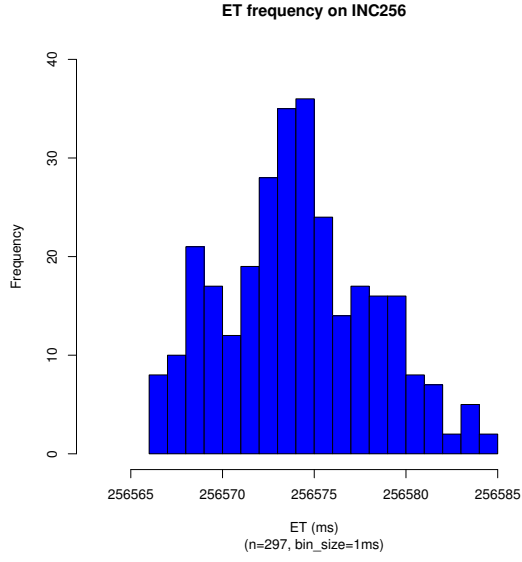


(c) ET frequency on INC64

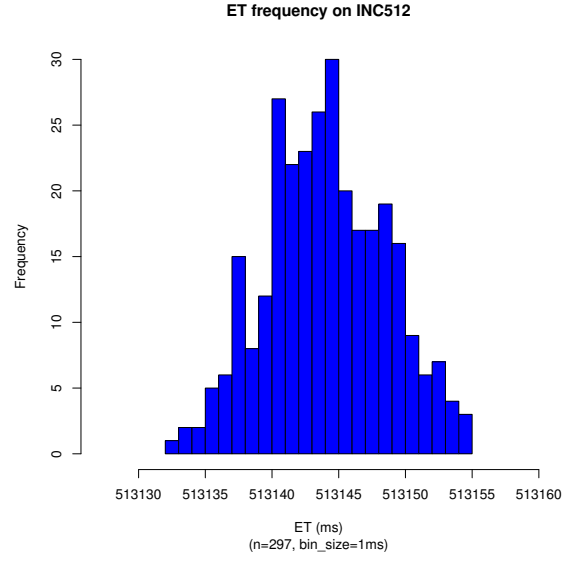


(d) ET frequency on INC128

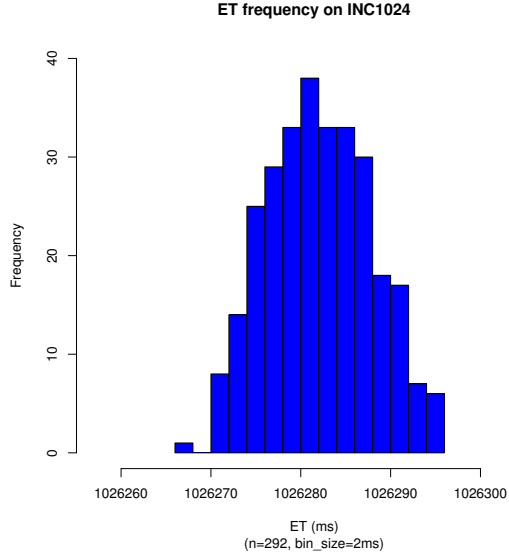
Figure 2: ET Histograms of INC16 ... INC128



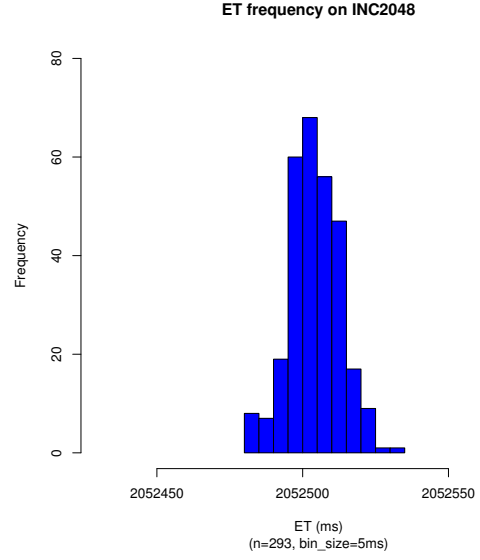
(a) ET frequency on INC256



(b) ET frequency on INC512



(c) ET frequency on INC1024



(d) ET frequency on INC2048

Figure 3: ET Histograms of INC256 ... INC2048

3.2 PT

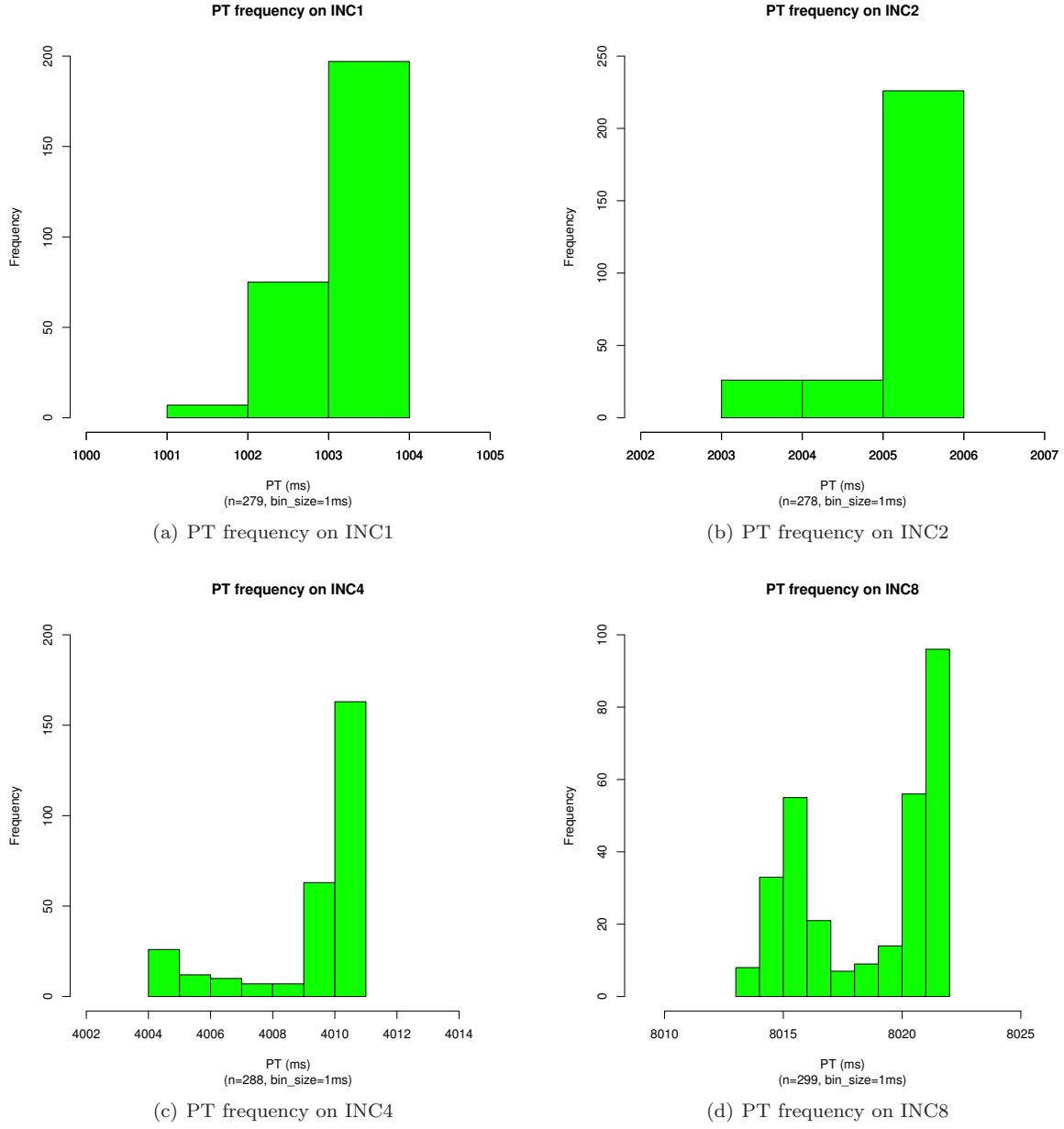
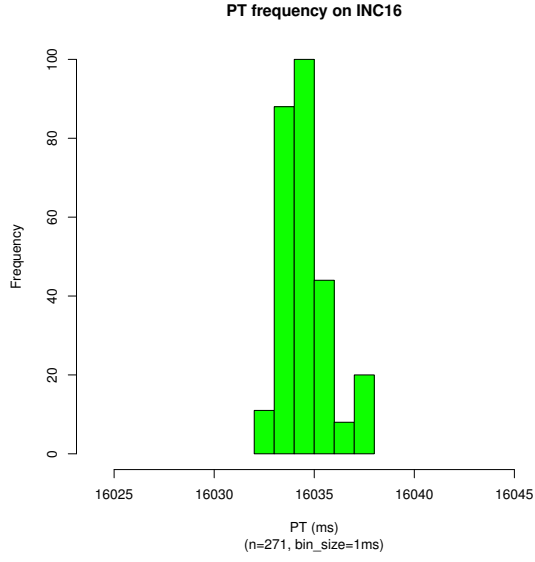
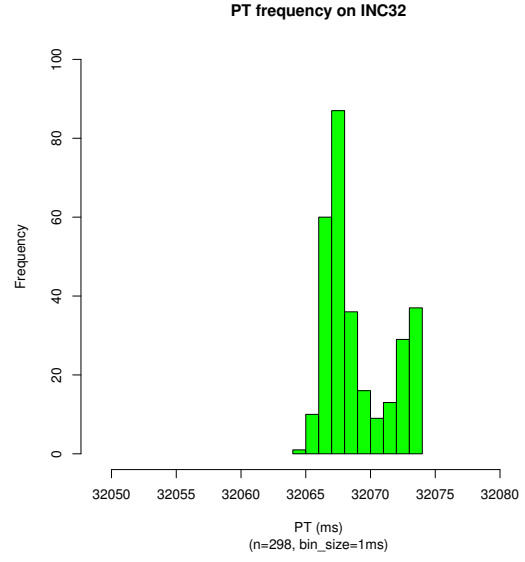


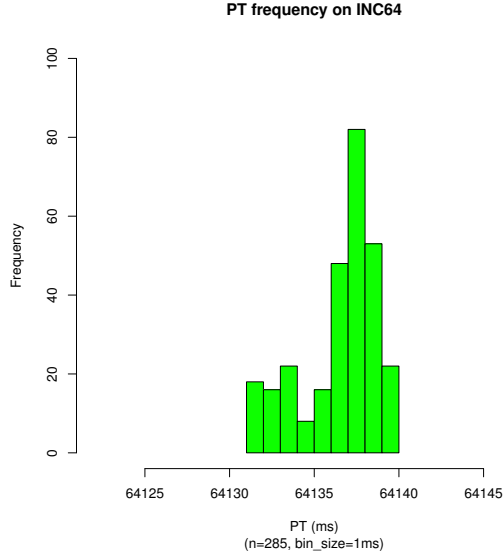
Figure 4: PT Histograms of INC1 ... INC8



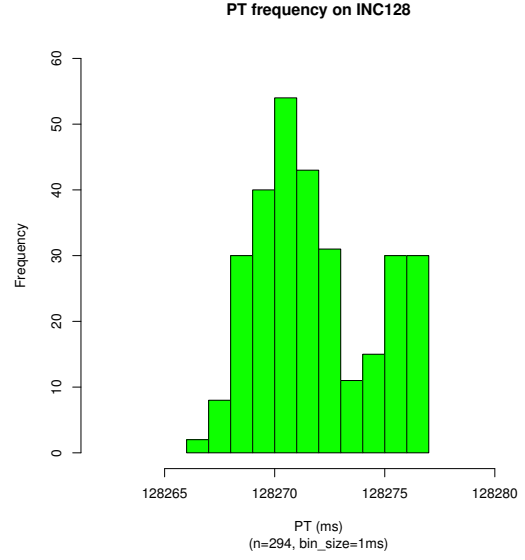
(a) PT frequency on INC16



(b) PT frequency on INC32

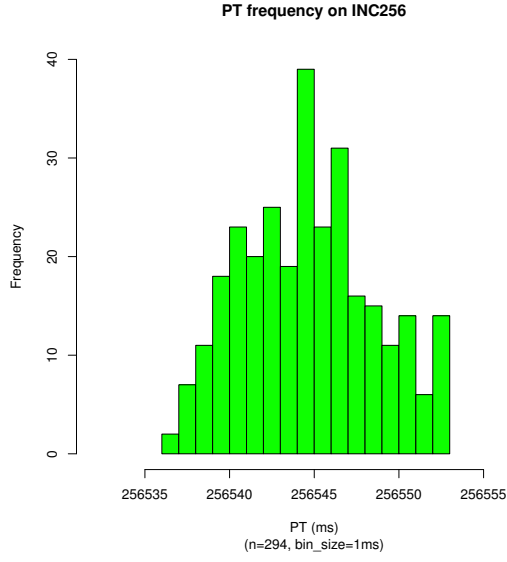


(c) PT frequency on INC64

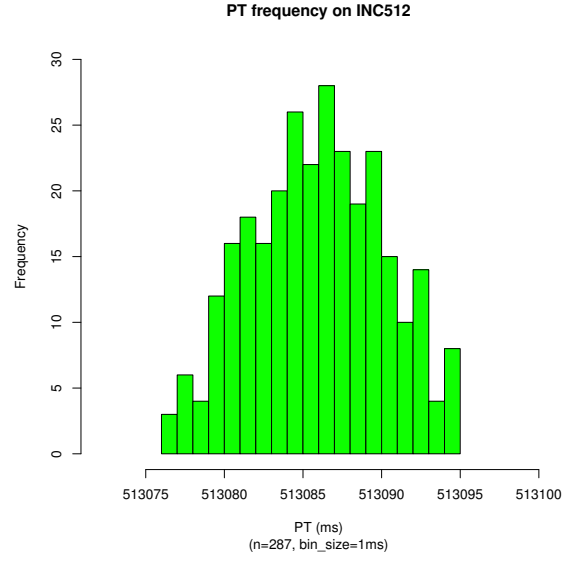


(d) PT frequency on INC128

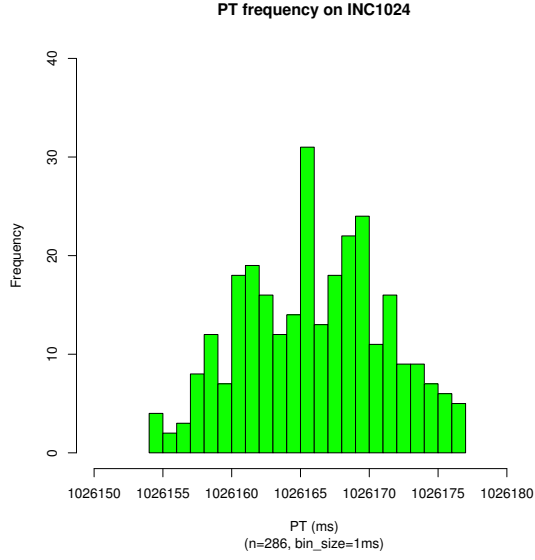
Figure 5: PT Histograms of INC16 ... INC128



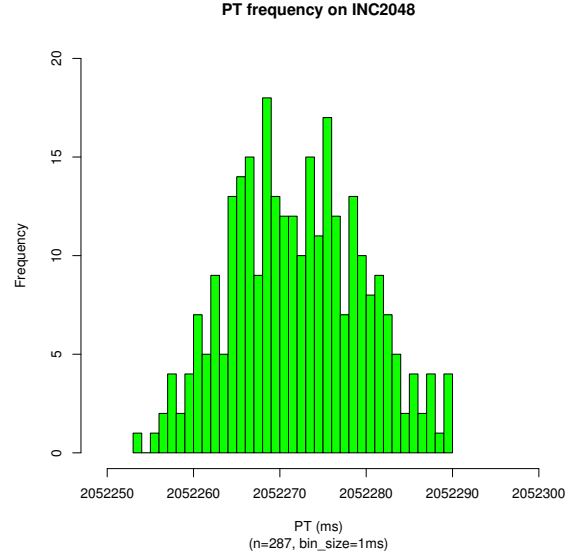
(a) PT frequency on INC256



(b) PT frequency on INC512



(c) PT frequency on INC1024



(d) PT frequency on INC2048

Figure 6: PT Histograms of INC256 ... INC2048