Histogram on Recent Runs by EMPv5

Young-Kyoon Suh

March 8, 2017

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 (sec)	Description	Experiment Period
sodb9	INC1~INC1024	Each run with 300 samples	$2017-02-09 \sim 2017-02-10$ /
			$2017-02-12 \sim 2017-02-19$
sodb10	INC2048	A run of 300 samples	$2017-02-12 \sim 2017-02-20$
sodb12	INC4096	A run of 300 samples	$2017-02-12 \sim 2017-02-27$
sodb12	INC8192	Two runs, each with 40 samples	$2017\text{-}01\text{-}16 \sim 2017\text{-}01\text{-}20$ /
			$2017-01-25 \sim 2017-01-29$
sodb12	INC16384	Two runs, each with 40 samples	$2017-01-05 \sim 2017-01-13$ /
			$2017-01-29 \sim 2017-02-06$

Table 1: Notes on experiment runs used for histograms

Now we show histograms of elapsed time (ET) and process time (PT) of INC.

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 is from Table 1.

3.1 ET

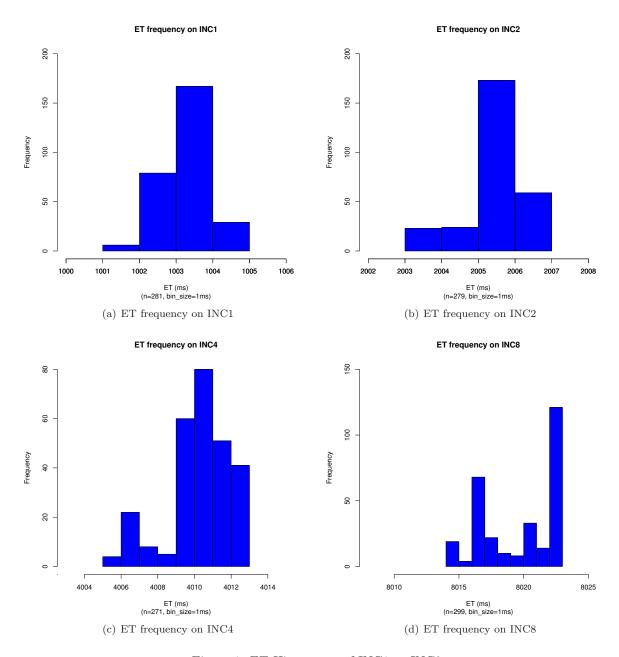
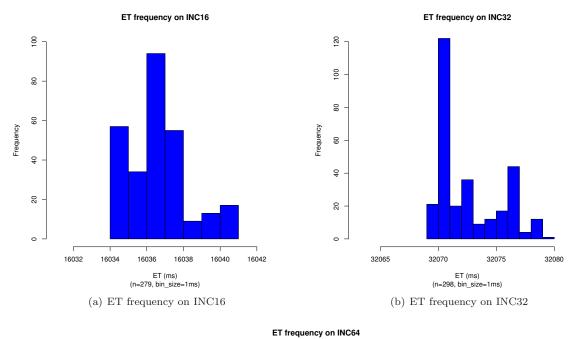


Figure 1: ET Histograms of INC1 ... INC8



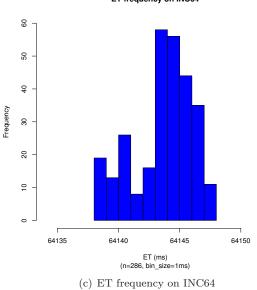


Figure 2: ET Histograms of INC16 \dots INC64

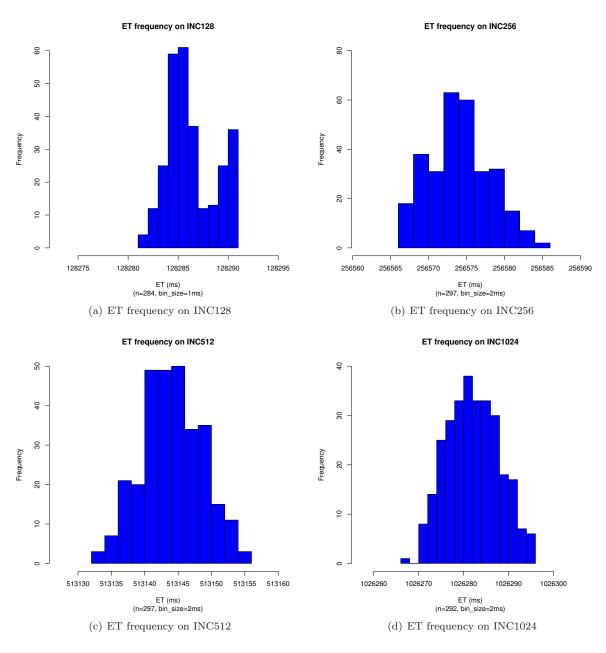


Figure 3: ET Histograms of INC128 \dots INC1024

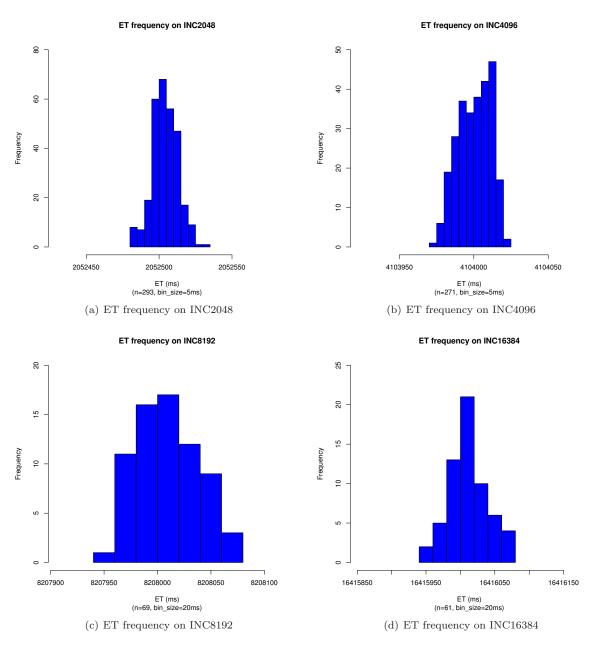


Figure 4: ET Histograms of INC2048 ... INC16384

3.2 PT

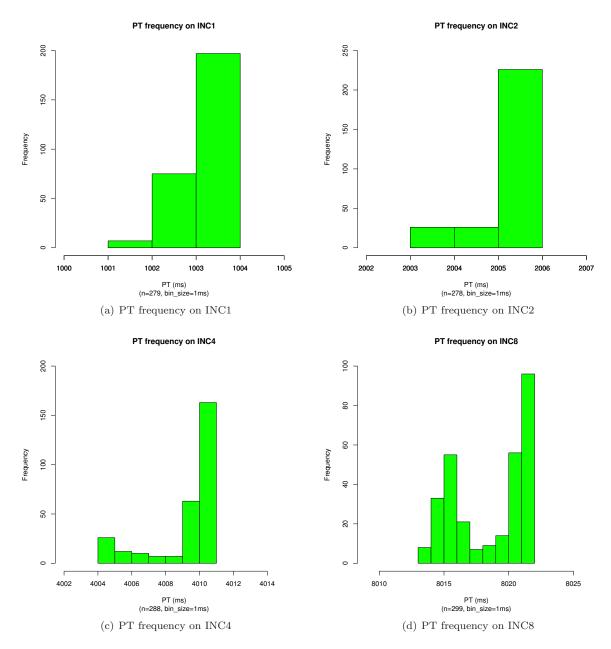
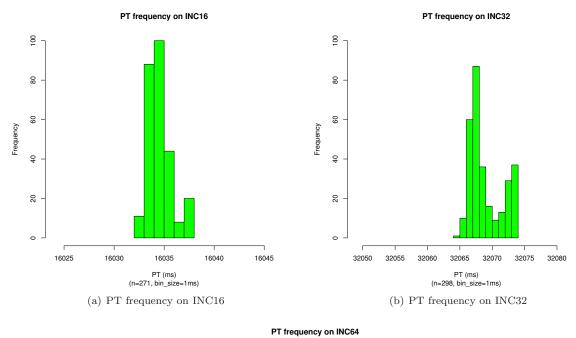


Figure 5: PT Histograms of INC1 \dots INC8



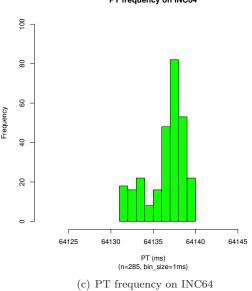


Figure 6: PT Histograms of INC16 \dots INC64

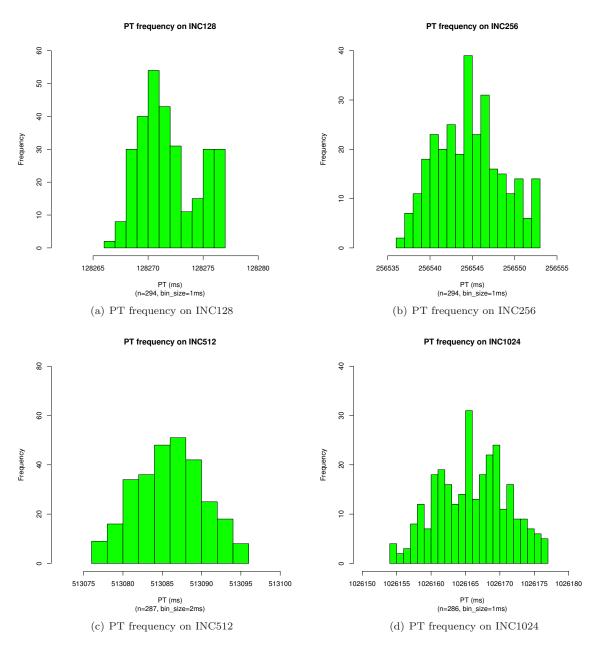


Figure 7: PT Histograms of INC256 \dots INC1024

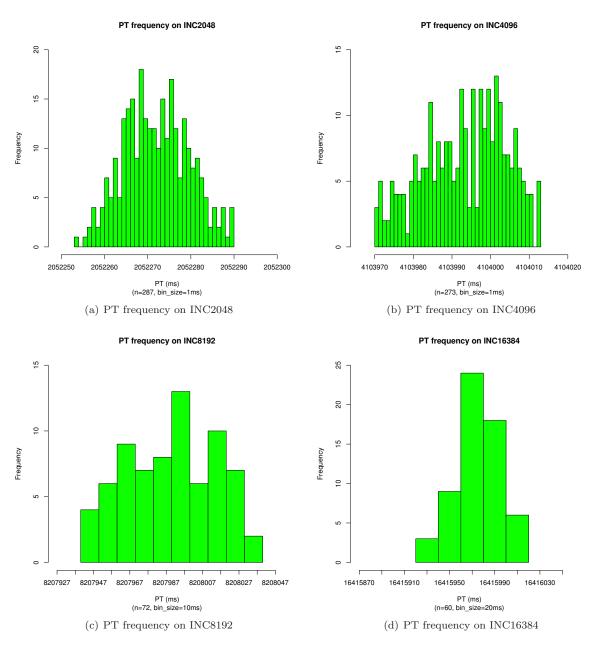


Figure 8: PT Histograms of INC2048 and INC16384