# 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 (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 are from Table 1.

#### 3.1 ET

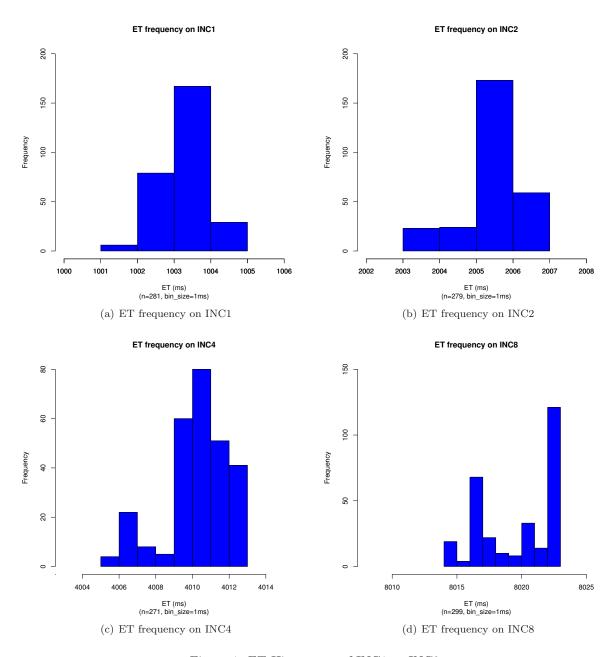
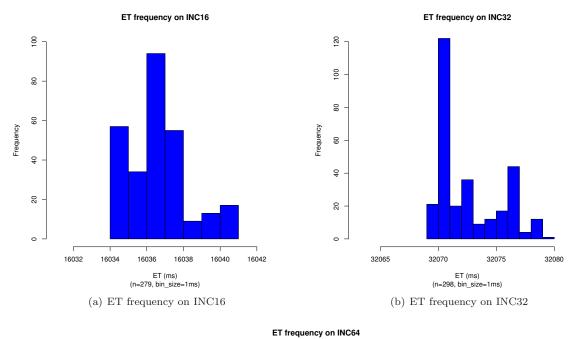


Figure 1: ET Histograms of INC1 ... INC8



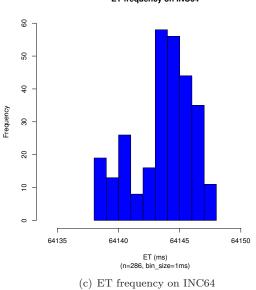


Figure 2: ET Histograms of INC16  $\dots$  INC64

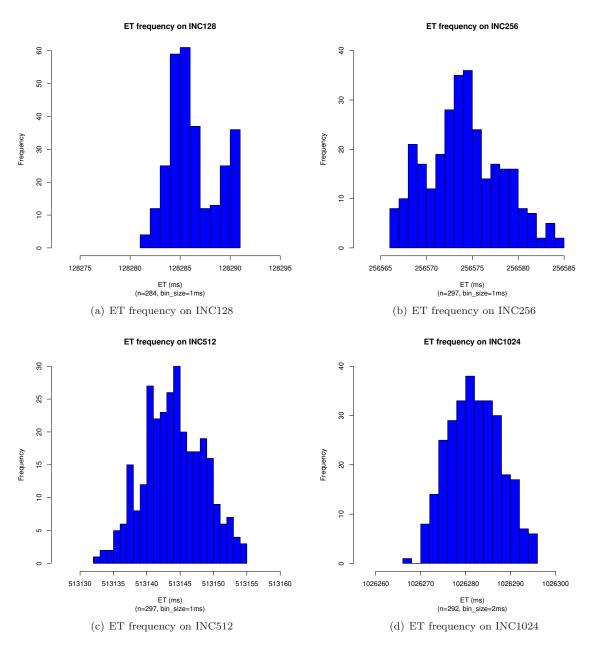


Figure 3: ET Histograms of INC128  $\dots$  INC1024

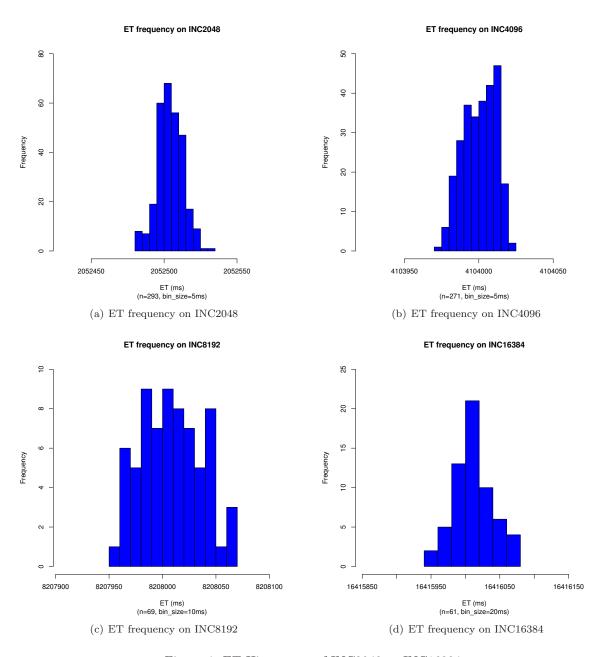


Figure 4: ET Histograms of INC2048 ... INC16384

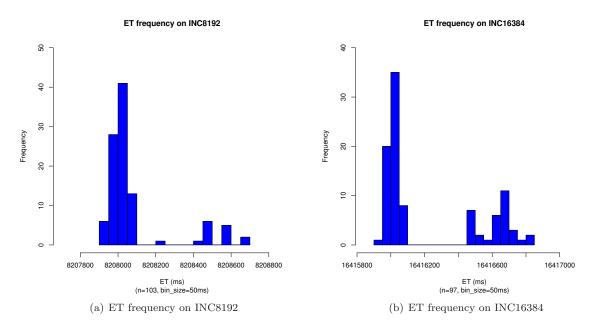


Figure 5: ET Histograms of INC8192... INC16384 [combined with 2015's run]

#### 3.2 PT

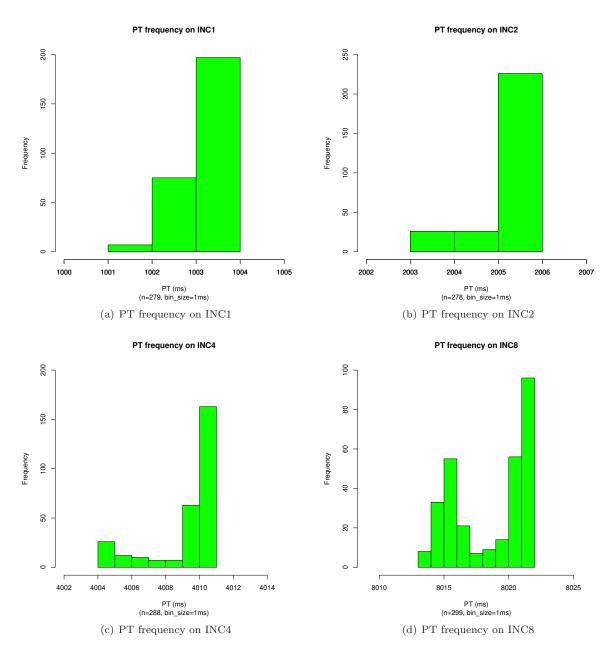
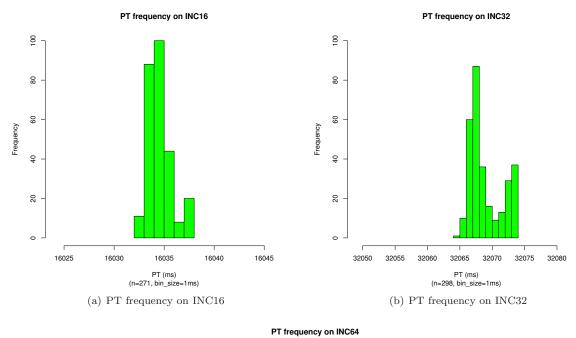


Figure 6: PT Histograms of INC1  $\dots$  INC8



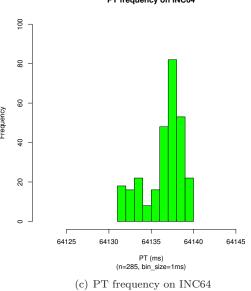


Figure 7: PT Histograms of INC16  $\dots$  INC64

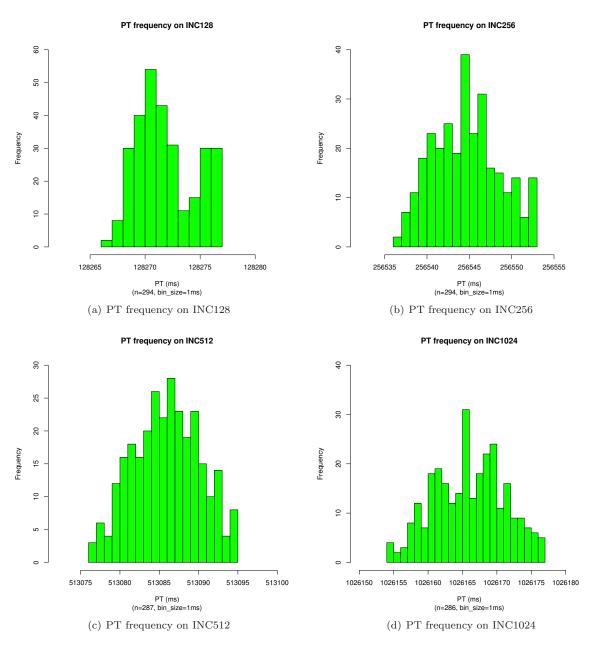


Figure 8: PT Histograms of INC256  $\dots$  INC1024

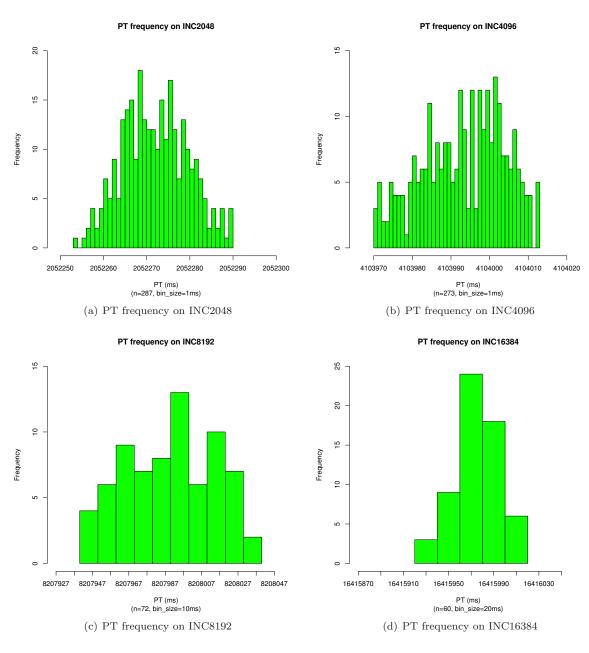


Figure 9: PT Histograms of INC2048 and INC16384

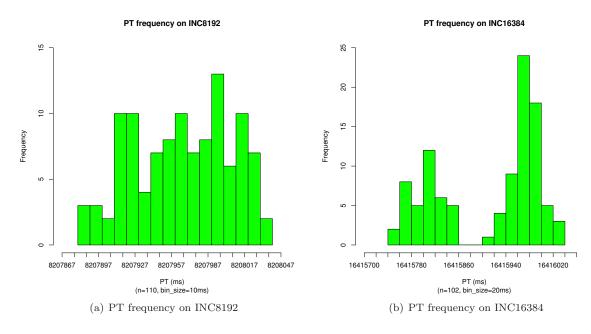


Figure 10: PT Histograms of INC8192 and INC16384 [combined with 2015's run]