A Comprehensive Study of Characterizing Program Execution Time

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1 Experiment Notes

Task Length	Description	Time Length
INC1~INC64	Runs of 1000 samples (on sodb12).	$2013-10-14 \sim 2013-10-15$
INC128~INC2048	Runs of 300 samples (on sodb12).	$2013-12-12 \sim 2013-12-21$
INC4096	A run of 300 samples (on sodb12).	$2014-06-23 \sim 2014-07-10$
INC8192	Runs of $40/40/40$ samples (on sodb12).	$2015-04-23 \sim 2015-04-27$ /
		$2017-01-16 \sim 2017-01-20$ /
		$2017-01-25 \sim 2017-01-29$
INC16384	Runs of $40/40/40$ samples (on sodb12).	$2015-04-23 \sim 2015-04-23 /$
		$2017-01-05 \sim 2017-01-13 /$
		$2017-01-29 \sim 2017-02-06$

Table 1: Notes on the regular INC data used for the histograms

2 Measurement Quality

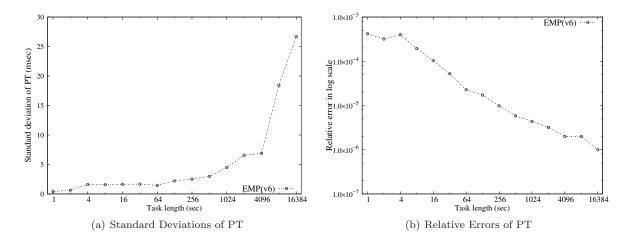


Figure 1: Measurement Quality Comparison among the EMP versions: updated with INC4096's another run

3 Histograms on the EMPv5 Data

The base data of the following histograms are from Table 1.

3.1 ET

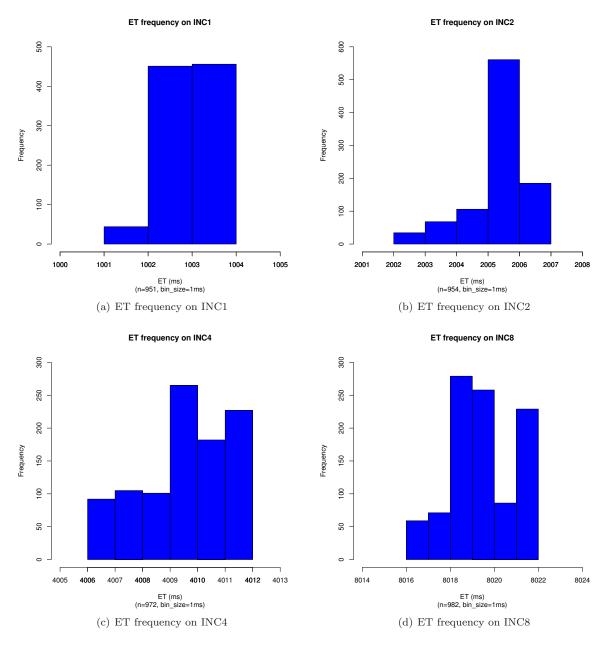
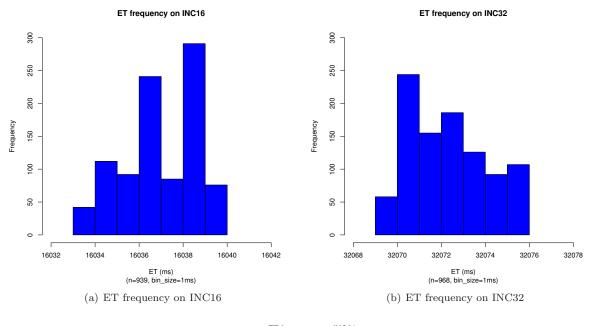


Figure 2: ET Histograms of INC1 \dots INC8



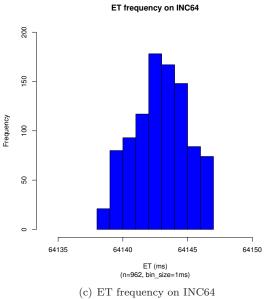


Figure 3: ET Histograms of INC16 \dots INC64

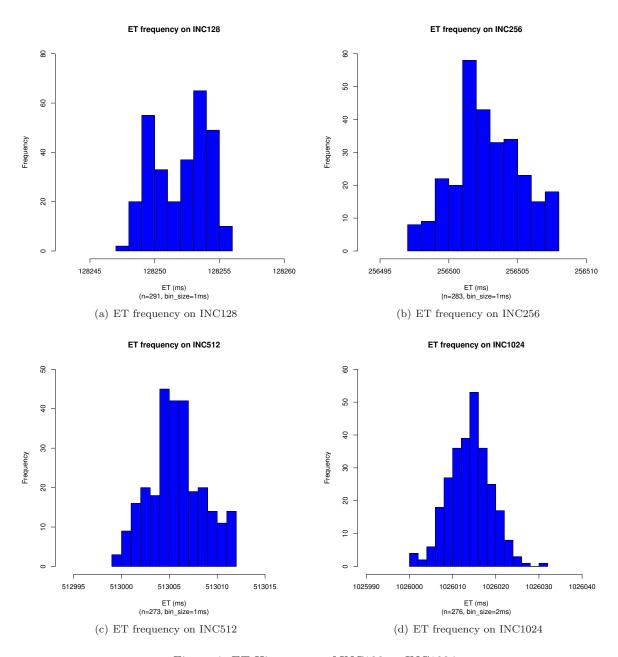


Figure 4: ET Histograms of INC128 ... INC1024

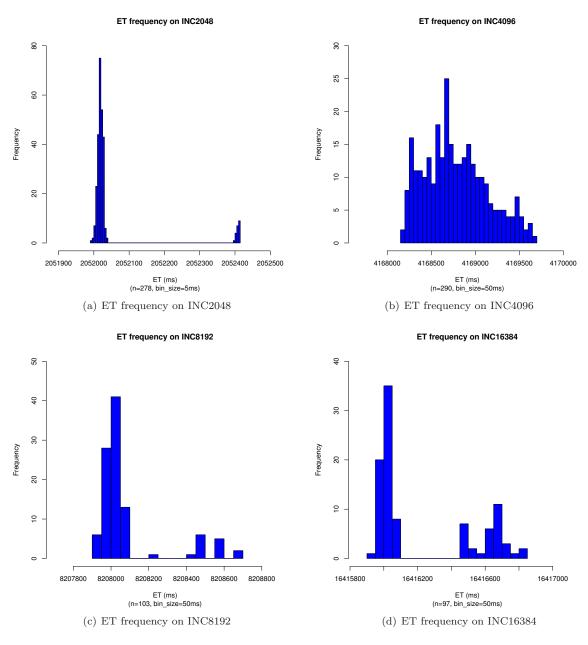


Figure 5: ET Histograms of INC2048 \dots INC16384

3.2 PT

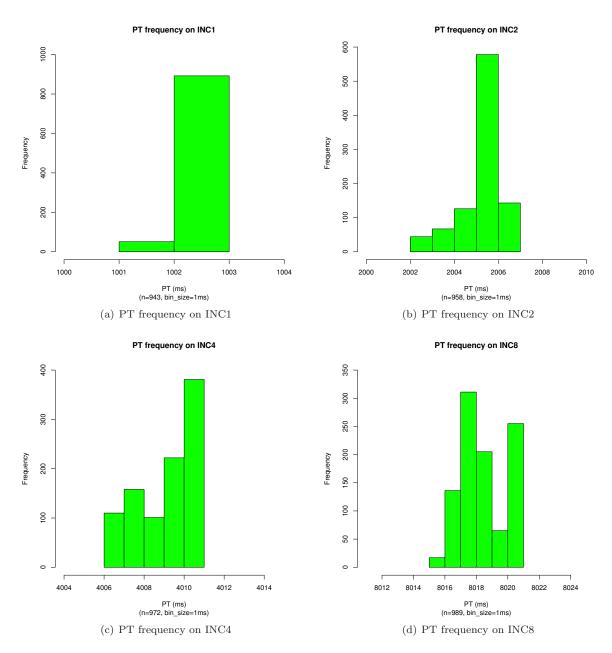
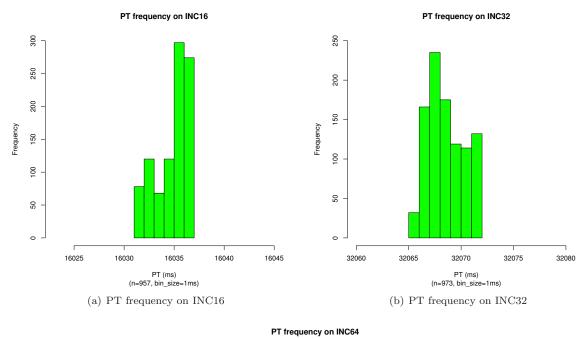


Figure 6: PT Histograms of INC1 \dots INC8



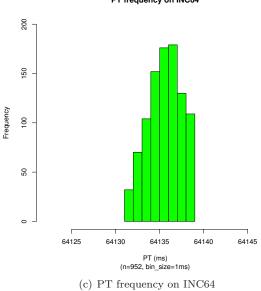


Figure 7: PT Histograms of INC16 \dots INC64

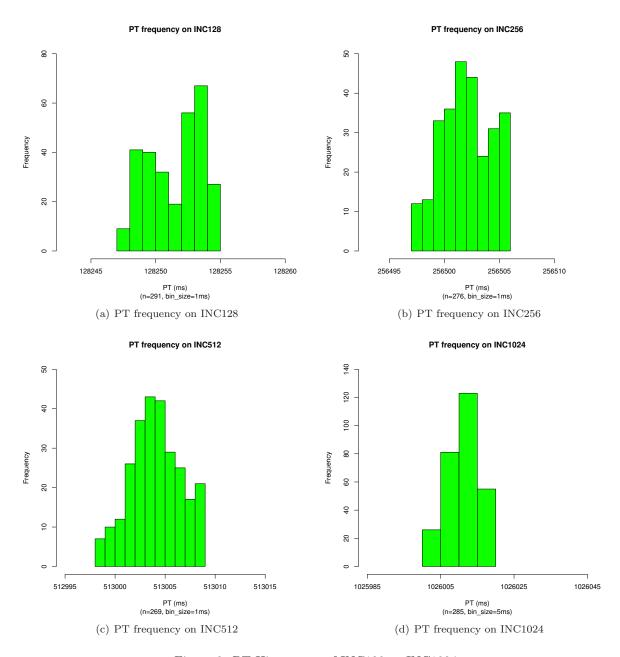


Figure 8: PT Histograms of INC128 ... INC1024

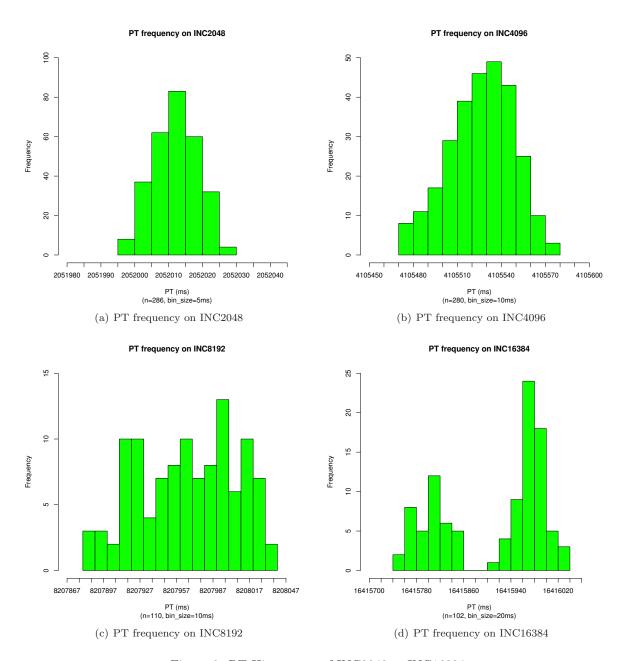


Figure 9: PT Histograms of INC2048 ... INC16384