Machine Homogeneity Check on EMPv5

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1 Experiment Notes

| Machine | Task Length | Description | Time Length |
|---------|-------------|---------------------|------------------------------|
| sodb8 | INC1~INC128 | Runs of 300 samples | $2017-02-09 \sim 2017-02-10$ |
| sodb9 | INC1~INC128 | Runs of 300 samples | $2017-02-09 \sim 2017-02-10$ |
| sodb10 | INC1~INC128 | Runs of 300 samples | $2017-02-09 \sim 2017-02-10$ |
| sodb12 | INC1~INC128 | Runs of 300 samples | $2017-02-09 \sim 2017-02-10$ |

Table 1: Detailed description of INC data used for histograms

The following sections presents experimental results on a machine basis. We used four nodes in a cluster. Each section exhibits histograms of elapsed time (ET) and process time (PT) over increasing INC's task lengths on each individual machine.

$2 \quad sodb8$

This section exhibits histograms on the EMPv5 data obtained on sodb8. The detailed description of the base data are from Table 1.

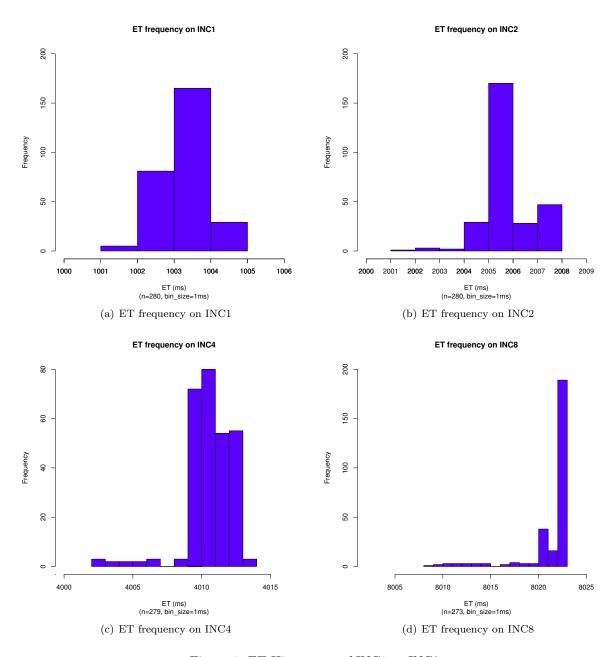


Figure 1: ET Histograms of INC1 ... INC8

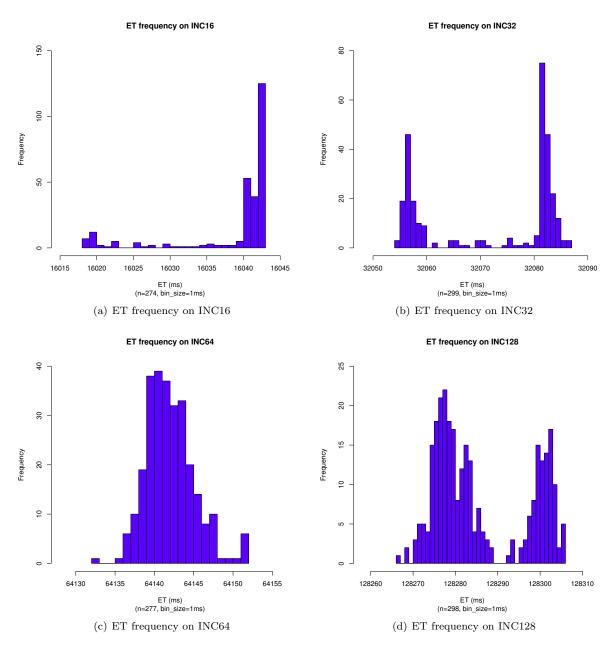


Figure 2: ET Histograms of INC16 ... INC128

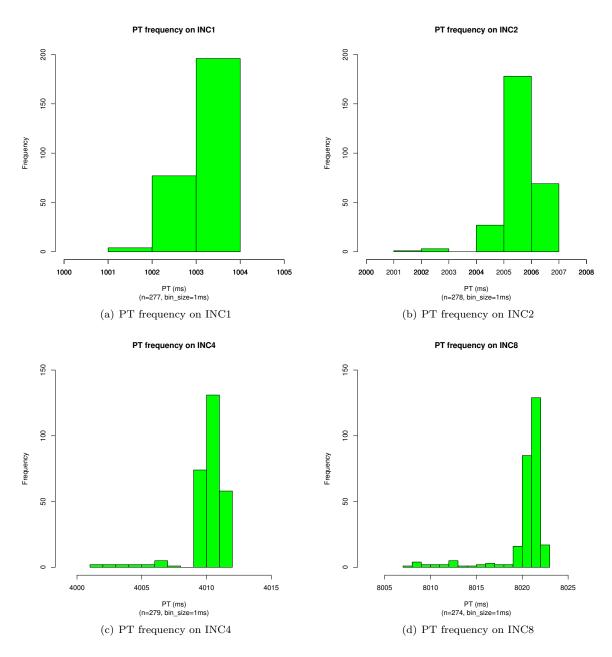


Figure 3: PT Histograms of INC1 \dots INC8

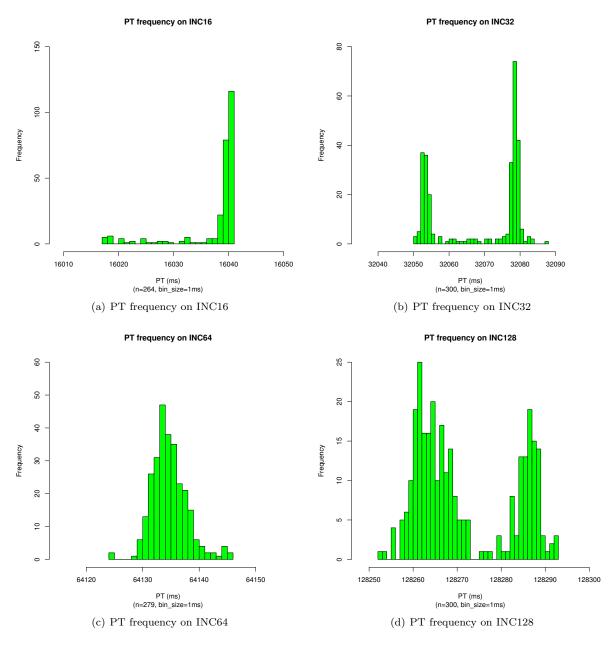


Figure 4: PT Histograms of INC16 \dots INC64

$3 \quad sodb9$

This section exhibits histograms on the EMPv5 data obtained on sodb9. The detailed description of the base data are from Table 1.

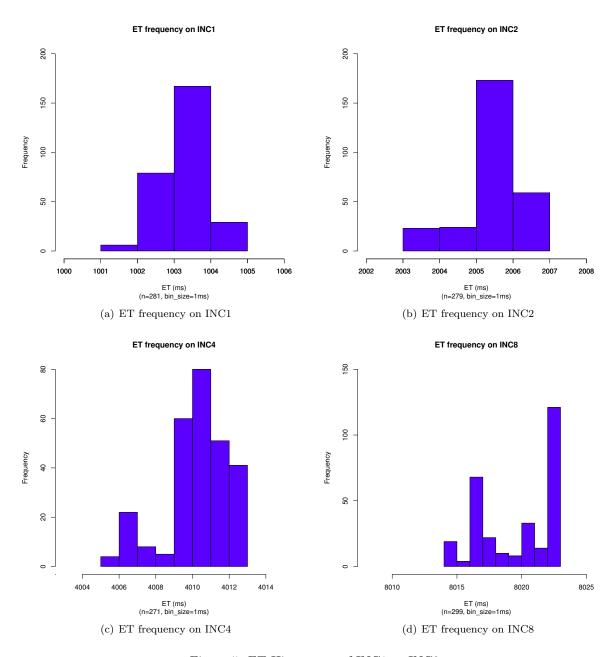


Figure 5: ET Histograms of INC1 ... INC8

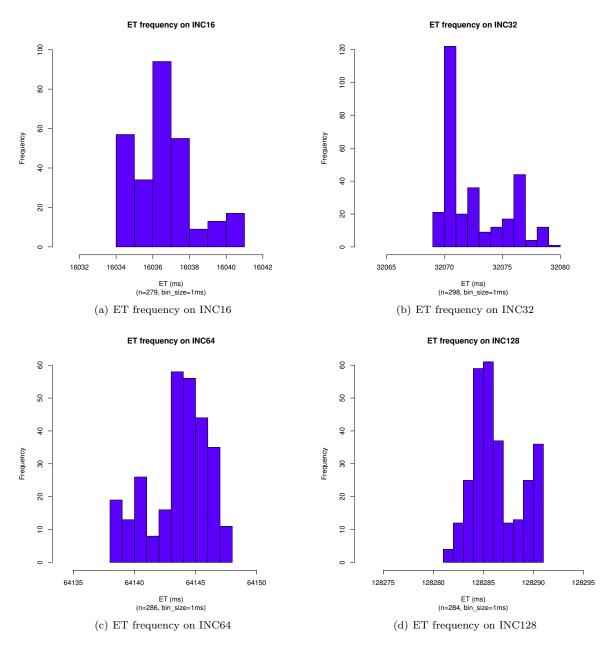


Figure 6: ET Histograms of INC16 ... INC128

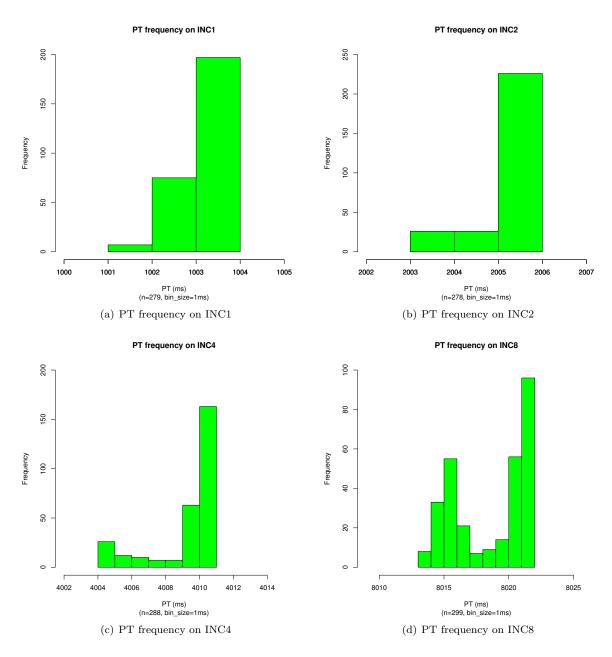


Figure 7: PT Histograms of INC1 \dots INC8

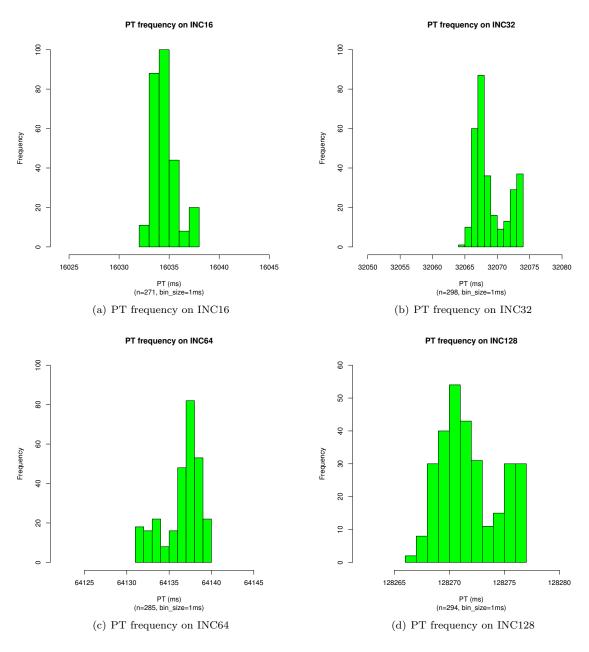


Figure 8: PT Histograms of INC16 ... INC64

$4 \mod 10$

This section exhibits histograms on the EMPv5 data obtained on sodb10. The detailed description of the base data are from Table 1.

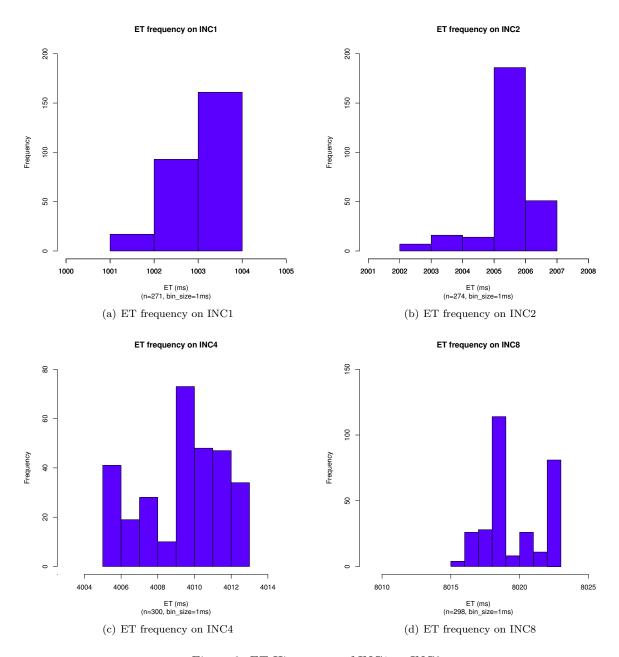


Figure 9: ET Histograms of INC1 ... INC8

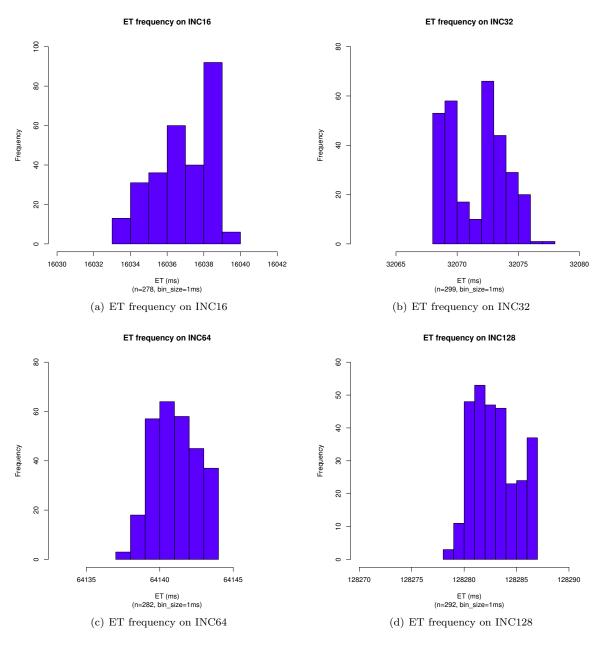


Figure 10: ET Histograms of INC16 ... INC128

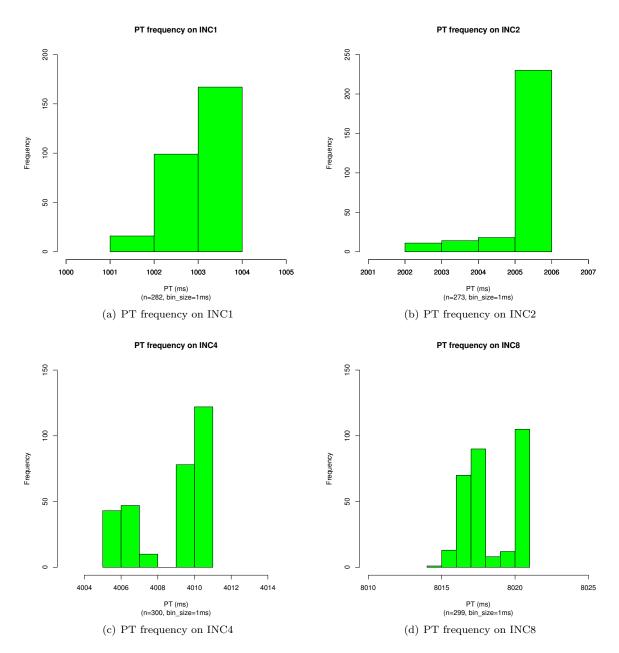


Figure 11: PT Histograms of INC1 ... INC8

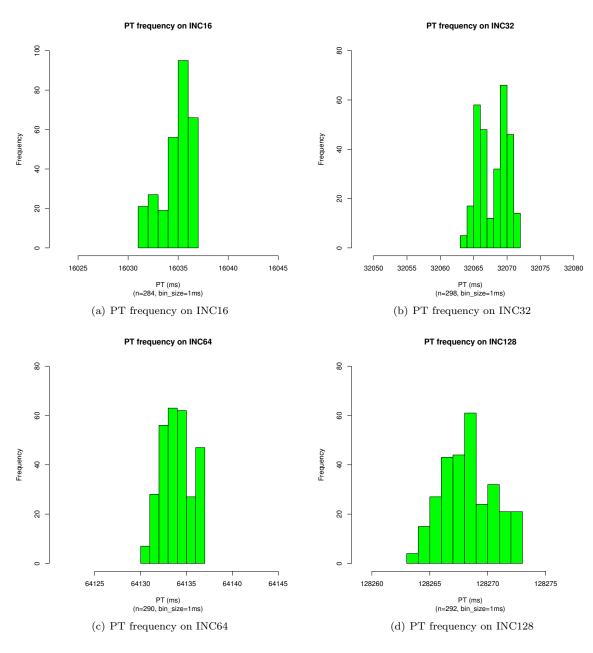


Figure 12: PT Histograms of INC16 \dots INC64

5 sodb12

This section exhibits histograms on the EMPv5 data obtained on sodb12. The detailed description of the base data are from Table 1.

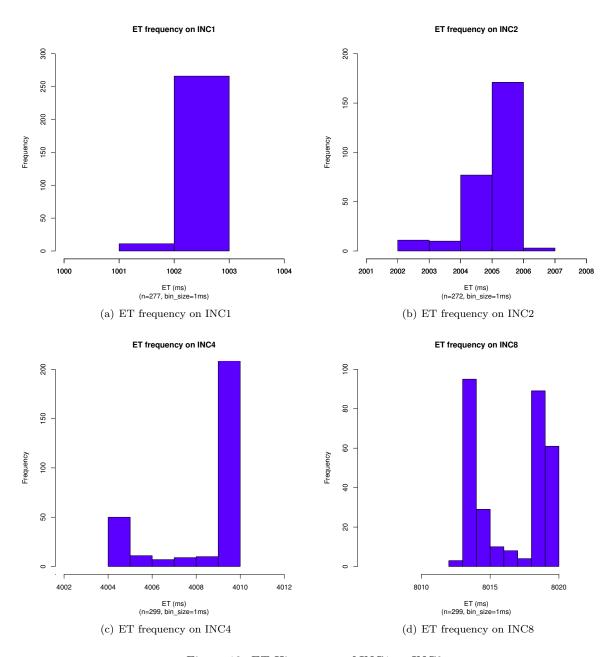


Figure 13: ET Histograms of INC1 ... INC8

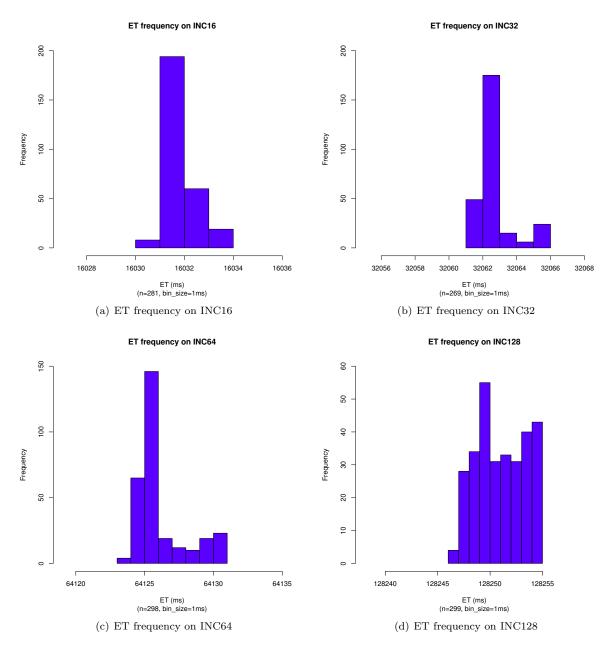


Figure 14: ET Histograms of INC16 ... INC128

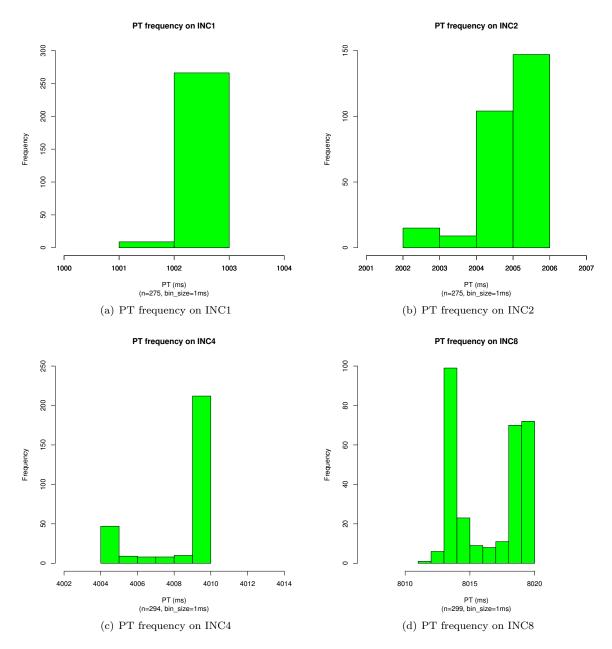


Figure 15: PT Histograms of INC1 \dots INC8

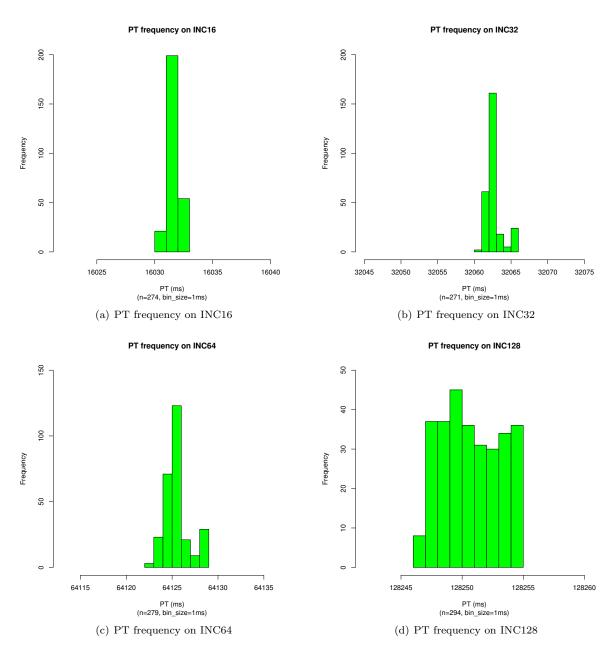


Figure 16: PT Histograms of INC16 ... INC64