# Evaluation

- **Generated test repositories**: precision and accuracy

- **Case study**: accuracy assessment on OSS

- **Manual verification**: precision on sample

$$precision = \frac{\#\ correctly\ identified\ commit\ origins}{\#\ identified\ commit\ origins}$$

$$accuracy = \frac{\#\ commit\ origins\ identified}{\#\ commits\ in\ repository}$$

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# Generated Test Repositories

| 26 Generated Repositories | | | | Merge Commits | |
|---|---|---|---|---|---|
| | Commits | Merge Commits | Named Branches | P | A |
| Total | 32297 | 11897 | 215 | 100.0% | 36.8% |
| Average | 1468 | 541 | 10 | 100.0% | 33.7% |
| Minimum | 113 | 13 | 5 | 100.0% | 11.5% |
| Maximum | 4986 | 1986 | 20 | 100.0% | 40.9% |

- 100% accuracy

- 91% precision

- Generated repositories may not completely reflect actual systems

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