

# Using block values as a proxy for time under Proof-of-Work vs. Proof-of-Stake Ethereum

Kofler Lorenz, Fischer Jonas

January 11, 2023

# Overview Consensus Mechanisms

- PoW
  - solve complex computational problem
- PoS
  - staking number of coins as collateral

# Block Time under PoW

■ ...

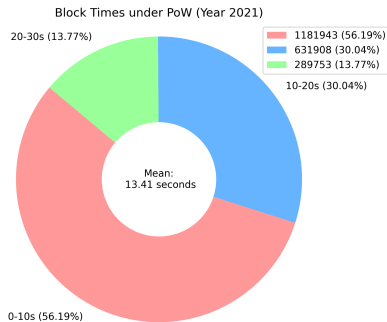


Figure 1: Block times under PoW (year 2021)

# Block Time under PoS

...

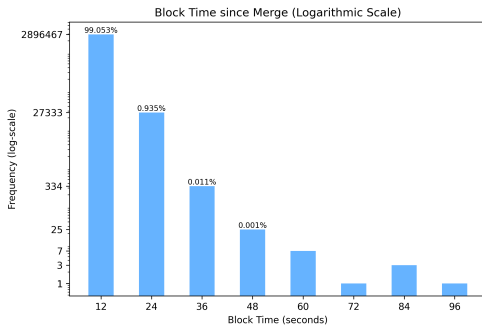


Figure 2: Block times since the merge

# Block Number PoW

# Block Number PoS

# Conclusion

# Use Cases