Universität Basel

Research Project

Bitcoin Full Node Analysis

Project funded by own resources

Project title Bitcoin Full Node Analysis
Principal Investigator(s) Schuldt, Heiko ;
Co-Investigator(s) Schär, Fabian ;
Organisation / Research unit
Departement Mathematik und Informatik / Databases and Information Systems (Schuldt)
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The popularity and rapid adoption of Bitcoin has significantly changed both the financial and digital landscape. First, from a financial point of view, it has introduced a novel and in particular democratic monetary instrument. Second, from a computer science perspective, it comes with a large-scale, inherently distributed and highly fault-tolerant peer-to-peer infrastructure, without any centralized control. While the former aspect, the financial perspective, has been analyzed in detail, the latter aspect, the computer science perspective is rather unexplored, especially from a quantitative point of view. In this project, we present the results of an analysis of a big data collection on all advertised Bitcoin full nodes worldwide, harvested in a period of more than seven years, from September 4th 2014 until October 31st 2021.

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