

PRIORITIZING SHARED BLOCKCHAIN DATA STORAGE

ABSTRACT

Disclosed herein are methods, systems, and apparatus, including computer programs encoded on computer storage media, for storing blockchain data. One of the methods includes receiving a plurality of blocks from a blockchain node in the blockchain network; for each of the plurality of blocks: determining a first number of blockchain nodes that store a dataset divided from an error correction coding (ECC) encoded version of the block and a second number of blockchain nodes that store a dataset comprised of redundant bits divided from the ECC encoded version of the block; calculating a priority value of the block based on the first number and the second number; and encoding at least a portion of the plurality of blocks using ECC to generate a plurality of encoded blocks based on the priority value.

FIG. 6