

LDPC CODES FOR STORAGE SYSTEM

Abstract

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This invention relates to an encoding method for adding redundancy to data to be stored on a computer system or a distributed storage system. The method comprises receiving data to be encoded, selecting two integers n_b and m_b , where n_b/m_b is bigger than 1, generating a parity check matrix, H , using the selected two integers n_b and m_b that
10 satisfy certain conditions, and encoding the data based on the erasure code with the determined parity check matrix, H , to form encoded data and parity chunks.

Figure 5 to accompany the abstract

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