

CLAIMS

1. A computer-implemented method comprising:
 - receiving, by a storage system, a processing request of data of a centralized ledger system, wherein types of the data of the centralized ledger system comprise block data, transaction data, and index data;
 - determining, by the storage system, a type of the data among the types of the data of the centralized ledger system; and
 - applying, by the storage system, a type of a processing engine specified for processing the type of the data according to a characteristic of the type of the data.
2. The computer-implemented method of claim 1, further comprising: receiving, by the storage system, configurations of a plurality of processing engines, wherein the configurations configure a respective type of a processing engine for processing each of the types of the data of the centralized ledger system according to a characteristic of the each of the types of the data.
3. The computer-implemented method of claim 1, wherein the storage system comprises:
 - a type of a processing engine specified for processing block data;
 - a type of a processing engine specified for processing transaction data; and
 - a type of a processing engine specified for processing index data.
4. The computer-implemented method of claim 1, wherein:
 - receiving, by the storage system, the processing request of the data of the centralized ledger system comprises receiving, by the storage system, an input/out (I/O) request of the data of the centralized ledger system; and
 - the corresponding type of the processing engine specified for processing the type of the data of the centralized ledger system comprises a corresponding type of an input/out (I/O) processing engine specified for performing a read or write operation of the type of the data of the centralized ledger system.

5. The computer-implemented method of claim 1, wherein:
 - receiving, by the storage system, the processing request of the data of the centralized ledger system comprises receiving, by the storage system, a data management request of the data of the centralized ledger system;
 - the corresponding type of the processing engine specified for processing the type of the data comprises a corresponding type of a data management processing engine specified for performing a data management operation of the type of the data in the storage system, and
 - the management operation comprises one or more of tiering, compaction, compression, erasure coding, or snapshot.
6. The computer-implemented method of claim 1, wherein the type of the data is block data or transaction data, and the type of the processing engine specified for processing the type of the data is configured with functions comprising tiering, erasure coding and compression of the block data or transaction data in the storage system.
7. An apparatus for data processing and storage, the apparatus comprising a plurality of modules for performing the computer-implemented method of any one of claims 1 to 6.
8. A system for data processing and storage, comprising:
 - one or more processors; and
 - one or more computer-readable memories coupled to the one or more processors and having instructions stored thereon that are executable by the one or more processors to perform the computer-implemented method of any one of claims 1 to 6.