SUMMARY

[0007] According to at least one embodiment of the present invention a method for data storage in a hybrid storage node of a data storage system is provided. The hybrid storage node includes first and second storage devices having different performance characteristics wherein the first devices includes at least one high performance non-volatile memory for cache storage and the second storage devices comprise two or more storage devices, the cache storage being shared among the two or more storage devices. The hybrid storage node further includes processing resources shared among the two or more storage devices for managing data storage in the hybrid storage node so as to implement the method. The method includes receiving a read request to read stored information from the hybrid storage node and, in response to the read request, accessing both the cache storage in the first storage devices and storage in the second storage devices to locate the stored information using the shared processing resources.

[0008] According to another embodiment of the present invention a data storage system comprising one or more hybrid storage nodes is provided. Each hybrid storage node includes first and second storage devices and processing resources. The first storage devices having first performance characteristics and the second storage devices having second performance characteristics different than the first performance characteristics. The processing resources manage data storage in the hybrid storage node. The first performance characteristics are higher performing than the second performance characteristics and the first storage devices include at least one high performance non-volatile memory for cache storage. The cache storage serves as cache for the second storage devices. The second storage devices include two or more storage devices. The processing resources and the cache storage are shared among the two or more storage devices.

BRIEF DESCRIPTION OF THE DRAWINGS

[0009] The accompanying figures, where like reference numerals refer to identical or functionally similar elements throughout the separate views and which together