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Apple File System Assignment

In keeping with what we've learned thus far about file systems, it's worth discussing another, unorthodox system—Apple File System. Apple File System (APFS) is a third party file system created by Apple Inc. for newer Apple products and was developed to improve upon its predecessors. One such improvement is enhanced encryption methods in the form of multi-key encryption; this newer form of encryption creates a unique encryption I.D. key for each file and makes security exponentially more integral. In the age of data loss and internet phishing, this new feature could mean all the difference between losing valuable information to shady people on the internet, and not. APFS also improves on its predecessors by allowing snapshot support and moving towards a more "solid-state-friendly" file system. Lastly, despite the problem posed by solid-state drive integrity, Apple has found a little work-around to this problem by introducing checksums to ensure data integrity for metadata. With everything discussed thus far, it's safe to say the APFS is a major improvement over its predecessors and will be the catalyst for even better file systems in the near future.

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