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# Flash Translation layer used for mapping schemes like BAST and FAST

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## Abstract

Flash is a type of electronically erasable programmable read- only memory (EEPROM). NAND Flash Memory is used in handheld electronic devices like mobile, cameras, iPods, music players, is also used as an alternative storage medium for Hard Disk Drives (HDD) in PCs and Laptops. Flash memory is important as nonvolatile storage for mobile consumer electronics due to its low power consumption and shock resistance. An intermediate software layer called Flash Translation Layer (FTL) is used to overcome these obstacles.Many efforts for optimizing the working of address mapping schemes have been done by different research workers. Though various schemes are designed and proposed but there is no literature available providing mathematical computations comparing the performance of the various mapping schemes in the form of time complexity. In this paper we have tried to find out the comparative cost of block merge operation required during garbage collection for some representative mapping schemes like BAST and FAST.



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