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An Architectural Increase Throughput of a Hard Disc Drive

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Abstract - It has been observed from literature that the de-facto large scale storage solution for any computational system is the hard drive that operates on the principles of magnetism. Time has seen the improvement in its performance since inception. The performance of any hard drive is judged by the various latencies associated with the disc. In this paper, we propose to increase the performance further by reducing various latencies of a hard disc. This is made possible by the introduction of an additional head on the same side of the magnetic platter. The operation is governed by various modes which can be selected based upon the requirement criteria. This proposal constructively utilizes fragmentation to improve performance, which in a traditional hard disc drive has an adverse effect on performance.