GPU based Suffix Array Pattern Matching Approach for Big Data

Abstract

Big data has been an emerging problem these days. To solve this problem Hadoop has evolved as a most widely used tool and adopted by various popular MNCs like Facebook and Yahoo. To search large number of pattern in big data is a challenging task. Map/Reduce is used to write codes to perform pattern matching on big data. In this work OpenCL is combined with Apache Hadoop to write fast Map/Reduce for pattern matching in data using suffix arrays.

References

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Index Terms

Computer Science Distributed Computing
**Keywords**

OpenCL, GPU, Hadoop, MapReduce.