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Data-Intensive Text Processing with MapReduce

Jimmy Lin
Chris Dyer

*SYNTHESIS LECTURES ON
HUMAN LANGUAGE TECHNOLOGIES*

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Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce

Sally Gao



Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce:

Data-Intensive Text Processing with MapReduce Jimmy Lin,Chris Dyer,2010-10-10 Our world is being revolutionized by data driven methods access to large amounts of data has generated new insights and opened exciting new opportunities in commerce science and computing applications Processing the enormous quantities of data necessary for these advances requires large clusters making distributed computing paradigms more crucial than ever MapReduce is a programming model for expressing distributed computations on massive datasets and an execution framework for large scale data processing on clusters of commodity servers The programming model provides an easy to understand abstraction for designing scalable algorithms while the execution framework transparently handles many system level details ranging from scheduling to synchronization to fault tolerance This book focuses on MapReduce algorithm design with an emphasis on text processing algorithms common in natural language processing information retrieval and machine learning We introduce the notion of MapReduce design patterns which represent general reusable solutions to commonly occurring problems across a variety of problem domains This book not only intends to help the reader think in MapReduce but also discusses limitations of the programming model as well Table of Contents Introduction MapReduce Basics MapReduce Algorithm Design Inverted Indexing for Text Retrieval Graph Algorithms EM Algorithms for Text Processing Closing Remarks **Data-Intensive Text**

Processing with MapReduce Jimmy Lin,Chris Dyer,2022-05-31 Our world is being revolutionized by data driven methods access to large amounts of data has generated new insights and opened exciting new opportunities in commerce science and computing applications Processing the enormous quantities of data necessary for these advances requires large clusters making distributed computing paradigms more crucial than ever MapReduce is a programming model for expressing distributed computations on massive datasets and an execution framework for large scale data processing on clusters of commodity servers The programming model provides an easy to understand abstraction for designing scalable algorithms while the execution framework transparently handles many system level details ranging from scheduling to synchronization to fault tolerance This book focuses on MapReduce algorithm design with an emphasis on text processing algorithms common in natural language processing information retrieval and machine learning We introduce the notion of MapReduce design patterns which represent general reusable solutions to commonly occurring problems across a variety of problem domains This book not only intends to help the reader think in MapReduce but also discusses limitations of the programming model as well Table of Contents Introduction MapReduce Basics MapReduce Algorithm Design Inverted Indexing for Text Retrieval Graph Algorithms EM Algorithms for Text Processing Closing Remarks Synthesis Lectures on Human Language

Technologies : Data-Intensive Text Processing with MapReduce Chris Dyer, **Professional Hadoop Solutions** Boris Lublinsky,Kevin T. Smith,Alexey Yakubovich,2013-09-12 The go to guidebook for deploying Big Data solutions with Hadoop Today s enterprise architects need to understand how the Hadoop frameworks and APIs fit together and how they can be

integrated to deliver real world solutions This book is a practical detailed guide to building and implementing those solutions with code level instruction in the popular Wrox tradition It covers storing data with HDFS and Hbase processing data with MapReduce and automating data processing with Oozie Hadoop security running Hadoop with Amazon Web Services best practices and automating Hadoop processes in real time are also covered in depth With in depth code examples in Java and XML and the latest on recent additions to the Hadoop ecosystem this complete resource also covers the use of APIs exposing their inner workings and allowing architects and developers to better leverage and customize them The ultimate guide for developers designers and architects who need to build and deploy Hadoop applications Covers storing and processing data with various technologies automating data processing Hadoop security and delivering real time solutions Includes detailed real world examples and code level guidelines Explains when why and how to use these tools effectively Written by a team of Hadoop experts in the programmer to programmer Wrox style Professional Hadoop Solutions is the reference enterprise architects and developers need to maximize the power of Hadoop

Hadoop+Spark 2017-09-01 Hadoop Spark Hadoop Spark 12 3 1 1 7 Hadoop Hadoop ZooKeeper HBase Hive MapReduce HDFS ZooKeeper HBase Hive Apache 2 8 11 Spark Spark Core Spark SQL Spark Streaming DataFrame Scala Spark API Spark SQL Spark Streaming DataFrame CDH Flume Kafka Apache 3 12 CDH Hadoop Spark

Data-intensive Systems Tomasz Wiktorski,2019-01-01 Data intensive systems are a technological building block supporting Big Data and Data Science applications This book familiarizes readers with core concepts that they should be aware of before continuing with independent work and the more advanced technical reference literature that dominates the current landscape The material in the book is structured following a problem based approach This means that the content in the chapters is focused on developing solutions to simplified but still realistic problems using data intensive technologies and approaches The reader follows one reference scenario through the whole book that uses an open Apache dataset The origins of this volume are in lectures from a master s course in Data intensive Systems given at the University of Stavanger Some chapters were also a base for guest lectures at Purdue University and Lodz University of Technology

Advanced Materials and Engineering Materials Sally Gao,2012-01-24 Selected peer reviewed papers from the 2011 International Conference on Advanced Materials and Engineering Materials ICAMEM 2011 November 22 24 2011 Shenyang Liaoning China

Cloud Computing Frederic Magoules,Jie Pan,Fei Teng,2012-09-20 As more and more data is generated at a faster than ever rate processing large volumes of data is becoming a challenge for data analysis software Addressing performance issues Cloud Computing Data Intensive Computing and Scheduling explores the evolution of classical techniques and describes completely new methods and innovative algorithms The book delineates many concepts models methods algorithms and software used in cloud computing After a general introduction to the field the text covers resource management including scheduling algorithms for real time tasks and practical algorithms for user bidding and auctioneer pricing It next explains approaches to data analytical

query processing including pre computing data indexing and data partitioning Applications of MapReduce a new parallel programming model are then presented The authors also discuss how to optimize multiple group by query processing and introduce a MapReduce real time scheduling algorithm A useful reference for studying and using MapReduce and cloud computing platforms this book presents various technologies that demonstrate how cloud computing can meet business requirements and serve as the infrastructure of multidimensional data analysis applications Handbook of Data Intensive Computing Borko Furht, Armando Escalante, 2011-12-10 Data Intensive Computing refers to capturing managing analyzing and understanding data at volumes and rates that push the frontiers of current technologies The challenge of data intensive computing is to provide the hardware architectures and related software systems and techniques which are capable of transforming ultra large data into valuable knowledge Handbook of Data Intensive Computing is written by leading international experts in the field Experts from academia research laboratories and private industry address both theory and application Data intensive computing demands a fundamentally different set of principles than mainstream computing Data intensive applications typically are well suited for large scale parallelism over the data and also require an extremely high degree of fault tolerance reliability and availability Real world examples are provided throughout the book Handbook of Data Intensive Computing is designed as a reference for practitioners and researchers including programmers computer and system infrastructure designers and developers This book can also be beneficial for business managers entrepreneurs and investors *Business Data Science: Combining Machine Learning and Economics to Optimize, Automate, and Accelerate Business Decisions* Matt Taddy, 2019-08-23 Use machine learning to understand your customers frame decisions and drive value The business analytics world has changed and Data Scientists are taking over Business Data Science takes you through the steps of using machine learning to implement best in class business data science Whether you are a business leader with a desire to go deep on data or an engineer who wants to learn how to apply Machine Learning to business problems you will find the information insight and tools you need to flourish in today's data driven economy You will learn how to Use the key building blocks of Machine Learning sparse regularization out of sample validation and latent factor and topic modeling Understand how use ML tools in real world business problems where causation matters more than correlation Solve data science programs by scripting in the R programming language Today's business landscape is driven by data and constantly shifting Companies live and die on their ability to make and implement the right decisions quickly and effectively Business Data Science is about doing data science right It's about the exciting things being done around Big Data to run a flourishing business It's about the precepts principals and best practices that you need know for best in class business data science

Understanding Big Data: Analytics for Enterprise Class Hadoop and Streaming Data IBM Paul Zikopoulos, Chris Eaton, Paul Zikopoulos, 2011-10-19 Big Data represents a new era in data exploration and utilization and IBM is uniquely positioned to help clients navigate this transformation This book reveals how IBM is leveraging open source Big Data

technology infused with IBM technologies to deliver a robust secure highly available enterprise class Big Data platform The three defining characteristics of Big Data volume variety and velocity are discussed You ll get a primer on Hadoop and how IBM is hardening it for the enterprise and learn when to leverage IBM InfoSphere BigInsights Big Data at rest and IBM InfoSphere Streams Big Data in motion technologies Industry use cases are also included in this practical guide Learn how IBM hardens Hadoop for enterprise class scalability and reliability Gain insight into IBM s unique in motion and at rest Big Data analytics platform Learn tips and tricks for Big Data use cases and solutions Get a quick Hadoop primer

Improvement of Data Intensive Applications Running on Cloud Computing Clusters Ibrahim Adel Ibrahim,2019

MapReduce designed by Google is widely used as the most popular distributed programming model in cloud environments Hadoop an open source implementation of MapReduce is a data management framework on large cluster of commodity machines to handle data intensive applications Many famous enterprises including Facebook Twitter and Adobe have been using Hadoop for their data intensive processing needs Task stragglers in MapReduce jobs dramatically impede job execution on massive datasets in cloud computing systems This impedence is due to the uneven distribution of input data and computation load among cluster nodes heterogeneous data nodes data skew in reduce phase resource contention situations and network configurations All these reasons may cause delay failure and the violation of job completion time One of the key issues that can significantly affect the performance of cloud computing is the computation load balancing among cluster nodes Replica placement in Hadoop distributed file system plays a significant role in data availability and the balanced utilization of clusters In the current replica placement policy RPP of Hadoop distributed file system HDFS the replicas of data blocks cannot be evenly distributed across cluster s nodes

Building Scalable Data-Intensive Applications Chandani

Kaul,2025-01-03 Building Scalable Data Intensive Applications explores the vast landscape of digital data from social networks blogs business science and engineering This book delves into data intensive computing which is essential for understanding and processing massive amounts of data Utilizing the latest software algorithms and hardware data intensive applications deliver timely and meaningful insights addressing the challenges posed by exponentially growing data complexity We provide a comprehensive reference for computing professionals and researchers covering the field s scope key challenges and state of the art approaches required for future data intensive problems Our chapters include general principles and methods for designing and managing systems that analyze vast datasets particularly those stored in the cloud Additionally we explore practical applications in cybersecurity and bioinformatics to illustrate these principles in action Building Scalable Data Intensive Applications is an invaluable resource for anyone looking to navigate and harness the power of data intensive computing

Data Intensive Query Processing for Semantic Web Data Using Hadoop and Mapreduce Mohammad Farhan Husain,University of Texas at Dallas. Graduate Program in Computer Science,2011

Semantic Web is an emerging area to augment human reasoning Various technologies are being developed in this arena

which have been standardized by the World Wide Web Consortium W3C One such standard is the Resource Description Framework RDF Semantic Web technologies can be utilized to build efficient and scalable systems for Cloud Computing With the explosion of semantic web technologies large RDF graphs are common place This poses significant challenges for the storage and retrieval of RDF graphs Current frameworks do not scale for large RDF graphs and as a result do not address these challenges In this dissertation we describe a framework that we built using Hadoop an open source distributed file system supporting MapReduce programming paradigm to store and retrieve large numbers of RDF triples by exploiting the cloud computing paradigm We describe a scheme to store RDF data in Hadoop Distributed File System SPARQL SPARQL Protocol and RDF Query Language is a language to query RDF data We present an algorithm which can rewrite some SPARQL queries to equivalent simpler ones leveraging the storage scheme More than one Hadoop job the smallest unit of execution in Hadoop may be needed to answer a query because a single triple pattern in a query cannot simultaneously take part in more than one join in a single Hadoop job To determine the jobs we present multiple algorithms based on greedy and exhaustive search approach to generate query plan to answer a SPARQL query We extend those algorithms to generate query plans for complex SPARQL queries with OPTIONAL blocks We use Hadoop's MapReduce framework to answer the queries Our results show that we can store large RDF graphs in Hadoop clusters built with cheap commodity class hardware Furthermore we show that our framework is scalable and efficient and can handle large amounts of RDF data unlike traditional approaches

An Extensible and Scalable Pilot-MapReduce Framework for Data Intensive Applications on Distributed Cyberinfrastructure Pradeep Kumar Mantha,2012 Energy Efficient Data-Intensive Computing With Mapreduce Thomas S. Wirtz,2013

Power and energy consumption are critical constraints in data center design and operation In data centers MapReduce data intensive applications demand significant resources and energy Recognizing the importance and urgency of optimizing energy usage of MapReduce applications this work aims to provide instrumental tools to measure and evaluate MapReduce energy efficiency and techniques to conserve energy without impacting performance Energy conservation for data intensive computing requires enabling technology to provide detailed and systemic energy information and to identify in the underlying system hardware and software To address this need we present eTune a fine grained scalable energy profiling framework for data intensive computing on large scale distributed systems eTune leverages performance monitoring counters PMCs on modern computer components and statistically builds power performance correlation models Using learned models eTune augments direct measurement with a software based power estimator that runs on compute nodes and reports power at multiple levels including node core memory and disks with high accuracy Data intensive computing differs from traditional high performance computing as most execution time is spent in moving data between storage devices nodes and components Since data movements are potential performance and energy bottlenecks we propose an analysis framework with methods and metrics for evaluating and characterizing costly built in MapReduce data

movements The revealed data movement energy characteristics can be exploited in system design and resource allocation to improve data intensive computing energy efficiency Finally we present an optimization technique that targets inefficient built in MapReduce data movements to conserve energy without impacting performance The optimization technique allocates the optimal number of compute nodes to applications and dynamically schedules processor frequency during its execution based on data movement characteristics Experimental results show significant energy savings though improvements depend on both workload characteristics and policies of resource and dynamic voltage and frequency scheduling As data volume doubles every two years and more data centers are put into production energy consumption is expected to grow further We expect these studies provide direction and insight in building more energy efficient data intensive systems and applications and the tools and techniques are adopted by other researchers for their energy efficient studies

The Data Bonanza Malcolm Atkinson, Rob Baxter, Peter Brezany, Oscar Corcho, Michelle Galea, Mark Parsons, David Snelling, Jano van Hemert, 2013-03-19 Complete guidance for mastering the tools and techniques of the digital revolution With the digital revolution opening up tremendous opportunities in many fields there is a growing need for skilled professionals who can develop data intensive systems and extract information and knowledge from them This book frames for the first time a new systematic approach for tackling the challenges of data intensive computing providing decision makers and technical experts alike with practical tools for dealing with our exploding data collections Emphasizing data intensive thinking and interdisciplinary collaboration The Data Bonanza Improving Knowledge Discovery in Science Engineering and Business examines the essential components of knowledge discovery surveys many of the current research efforts worldwide and points to new areas for innovation Complete with a wealth of examples and DISPEL based methods demonstrating how to gain more from data in real world systems the book Outlines the concepts and rationale for implementing data intensive computing in organizations Covers from the ground up problem solving strategies for data analysis in a data rich world Introduces techniques for data intensive engineering using the Data Intensive Systems Process Engineering Language DISPEL Features in depth case studies in customer relations environmental hazards seismology and more Showcases successful applications in areas ranging from astronomy and the humanities to transport engineering Includes sample program snippets throughout the text as well as additional materials on a companion website The Data Bonanza is a must have guide for information strategists data analysts and engineers in business research and government and for anyone wishing to be on the cutting edge of data mining machine learning databases distributed systems or large scale computing

Optimizing the Efficiency of Data-intensive Data Mashups Using Map-Reduce Sunayana Sarangi, 2017 **MapReduce Design Patterns** Donald Miner, Adam Shook, 2012 **Accelerating Hadoop Map-Reduce for Small/intermediate Data Sizes Using the Comet Coordination Framework** Shivangi Chaudhari, 2009 MapReduce has been emerging as a popular programming paradigm for data intensive computing in clustered environments MapReduce as a framework for solving

embarrassingly parallel problems has been extensively used on large clusters. These frameworks support ease of computation for petabytes of data mostly through the use of a distributed file system, example the Google File System used by the proprietary Google Map Reduce. In the Map, the master node takes the input, divides it into smaller sub problems and distributes those to worker nodes. The worker node processes that smaller problem and passes the answer back to its master node. In the Reduce, the master node then takes the answers of the sub problems and combines them to get the final output after reduces. The advantage of MapReduce is that it allows for distributed processing of the map and reduction operations assuming each operation is independent of the other, all can be executed in parallel. We found that file writes and reads to the distributed file system have an overhead, especially for smaller data sizes of the order of few tens of GB. Our solution provides the MapReduce framework built over Comet framework, utilizing TCP sockets for communication and coordination and uses in memory operations for data whenever possible. The objective of this thesis is to 1. understand the behaviors and limitations of MapReduce in the case of small/moderate datasets, 2. develop coordination and interaction framework to complement MapReduce/Hadoop to address these shortcomings, 3. demonstrate and evaluate using a real world application. In this thesis, we use Comet and its services to build a MapReduce infrastructure that addresses the above requirements, specifically enable pull based scheduling of Map tasks as well as stream based coordination and data exchange. The framework is based on the master/worker concept. Comet is a decentralized peer to peer computational infrastructure that supports applications having high computational requirements. Our system's interfaces are similar to the Hadoop MapReduce framework to make applications built on Hadoop easily portable to Comet based framework. The details of the implementation and evaluation of an actual pharmaceutical problem with its results have been described. We found that our solution can be used to accelerate the computations of medium sized data by delaying or avoiding the use of distributed file reads and writes.

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Table of Contents Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce

1. Understanding the eBook Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce
 - The Rise of Digital Reading Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce
 - Advantages of eBooks Over Traditional Books
2. Identifying Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce
 - User-Friendly Interface
4. Exploring eBook Recommendations from Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce
 - Personalized Recommendations
 - Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce User Reviews and Ratings
 - Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce and Bestseller Lists
5. Accessing Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce Free and Paid eBooks
 - Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce Public Domain eBooks
 - Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce eBook

Subscription Services

- Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce Budget-Friendly Options

6. Navigating Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce eBook Formats

- ePub, PDF, MOBI, and More
- Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce Compatibility with Devices
- Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce
- Highlighting and Note-Taking Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce
- Interactive Elements Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce

8. Staying Engaged with Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce

9. Balancing eBooks and Physical Books Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions

- Managing Screen Time
- 11. Cultivating a Reading Routine Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce
 - Setting Reading Goals Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce
 - Fact-Checking eBook Content of Data Intensive Text Processing With Mapreduce Data Intensive Text Processing With Mapreduce
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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