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and develop new applications that take absolutely full advantage of
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mapreduce consists of two distinct phases map and reduce as the name
mapreduce suggests first comes the mapper phase and later comes the
reducer phase the mapreduce framework provides a simple programming
model for expressing loosely coupled parallel programs by providing two
serial functions map and reduce the map function processes a block of
input producing a sequence of key value pairs while the reduce function
processes a set of values associated with a single key see more of the big
picture of big data processing in particular understand the tradeoffs
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learn about database style technology available for the mapreduce and
spark ecosystems this tutorial will cover recent results on algorithm
design for mapreduce and other modern parallel architectures we begin
with an overview of the framework and highlight the challenge of
avoiding communication and computational bottlenecks abstract
computing connected components of a graph lies at the core of many
data mining algorithms and is a fundamental sub routine in graph
clustering this problem is well studied yet many of the algorithms with
good theoretical guarantees perform poorly in practice especially when
faced with graphs with hundreds of billions of edges this book is a
critically needed resource for the newly released apache hadoop 2 0
highlighting yarn as the significant breakthrough that broadens hadoop
beyond the mapreduce paradigm this broad adoption and ubiquitous
usage has stretched the initial design well beyond its intended target
exposing two key shortcomings 1 tight coupling of a specific
programming model with the resource management infrastructure
forcing developers to abuse the mapreduce programming model and 2
centralized handling of jobs control flow we have observed that
mapreduce throughput performance for the terasort workload is
decreasing slightly as the data size crosses beyond 200 gb besides for
it workloads the mapreduce throughput is almost linear in

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on traditional mapreduce architecture for large scale data analysis we
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