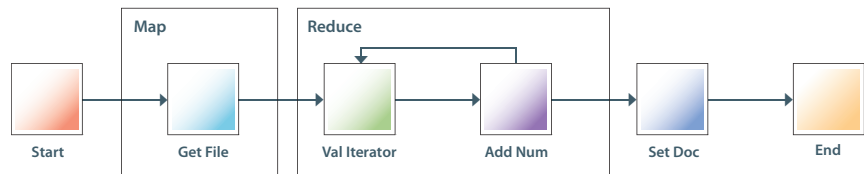


Information Builders' WebFOCUS business intelligence and iWay Software integration technologies provide an end-to-end information management strategy, combining performance management, data governance, business intelligence, and analytics to help organizations make smarter decisions.

iWay Parallel Service Manager

Accomplish Large Computing Tasks With Powerful MapReduce-Style Processing



As computing environments become more sophisticated and multifaceted, the need to better leverage resources and process information more efficiently is critical – particularly when executing complex requests across multiple applications or databases, or in tasks involving very large data sets. To help customers overcome the challenges associated with completing large computing tasks or projects, iWay Software now provides powerful MapReduce-style processing with iWay Parallel Service Manager.

iWay Parallel Service Manager provides powerful MapReduce-style processing to support large computing projects.

What Is MapReduce?

MapReduce is a software framework, created and patented by Google, which facilitates the efficient processing of large volumes of data, or the execution of complex computations across multiple different computers.

MapReduce works in two sequential steps: map, and then reduce. First, MapReduce breaks up large requests or jobs into smaller tasks, and then distributes those tasks among multiple assets for processing. Answers are then collected and reassembled as a single response to the initial question or problem.

iWay Parallel Service Manager: Fast, Effective Parallel Processing

iWay Parallel Service Manager has been extended with robust MapReduce-style processing functionality via Parallel Control Agents. Mapping and reducing are done in a Parallel Service Manager process flow, based on a list of tasks or items included in an input document. The process flow is then executed for each item in Parallel C, with the results compiled into a single final document. Or, it can be executed in parallel across multiple nodes within a cluster.

By allowing functions to be performed in parallel, instead of one after the other, iWay Parallel Service Manager delivers substantial benefits, including increased speed and productivity, the ability to conduct complex functions faster than ever before, and more efficient use of technology and hardware resources.

Find Out More

To find out how our solutions can help your company succeed, talk to an Information Builders representative today. Contact your local Information Builders office, visit us at informationbuilders.com, or in the U.S. and Canada, call **(800) 969-4636**.

Unlike other MapReduce-type solutions, which can be cumbersome and time-consuming, iWay Parallel Service Manager is ideal for companies looking to more rapidly execute massive federated queries, or efficiently perform complex computations using multiple resources simultaneously. iWay Parallel Service Manager offers:

- **Ease of Implementation.** With iWay, there is no custom Java™ code to write. A simple drag-and-drop interface makes it easy to divide large queries or complex computations across multiple assets, and then collect and aggregate the results
- **Unmatched Information Access.** Because iWay provides a suite of pre-packaged integration components that offers native access to more than 300 back-end systems, it can easily access data in, or send commands to, any source or target database

MapReduce capabilities have also been implemented around the iWay execution framework, and optimized for enterprise information integration (EII); extract, transform, and load (ETL); managed file transfer (MFT); and other specific iWay uses, such as SOA service federation.

iWay Parallel Service Manager also seamlessly integrates with the Hadoop Distributed File System, allowing users to leverage it to create MapReduce-style environments for document storage and retrieval. This approach maximizes scalability for massive volumes of information, dramatically increasing the speed and efficiency of archived record processing.

How It Works

Here are some examples of how the MapReduce-style features within iWay Parallel Service Manager would be applied in real-world scenarios:

- A query requires 100 databases to be accessed simultaneously. The Parallel Control Agent initiates requests that distribute the query across all 100 systems, based on a list of connections contained in a document provided by the user. It then connects to and gathers the needed data from each source, and compiles the results of each query into a single, final document. These 100 databases can be heterogeneous in landscape. For example, data can be joined between SAP, Oracle, and MUMPS in parallel.
- iWay Parallel Service Manager performs a query against a NoSQL database archive, which returns 10,000 documents. Those documents are then automatically converted from JSON to XML, before XQUERY is applied to transform and filter the results.

Laying the Foundation for Future Growth and Innovation

Best of all, iWay Parallel Service Manager offers maximum scalability and complete investment protection, so you can meet your current integration needs today, and address emerging requirements in the future. iWay Parallel Service Manager is a core component of other iWay suites, and can be easily and economically extended to support other mission-critical initiatives such as business-to-business (B2B) integration, enterprise information management (EIM), and business process automation (BPA).



Corporate Headquarters Two Penn Plaza, New York, NY 10121-2898 (212) 736-4433 Fax (212) 967-6406
Connect With Us informationbuilders.com askinfo@informationbuilders.com



DN3601482.0311

Copyright © 2011 by Information Builders. All rights reserved. [93] All products and product names mentioned in this publication are trademarks or registered trademarks of their respective companies. Java and all Java-based marks are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries.



Printed in the U.S.A.
on recycled paper