PERVASIVE

SOLUTION SHEET

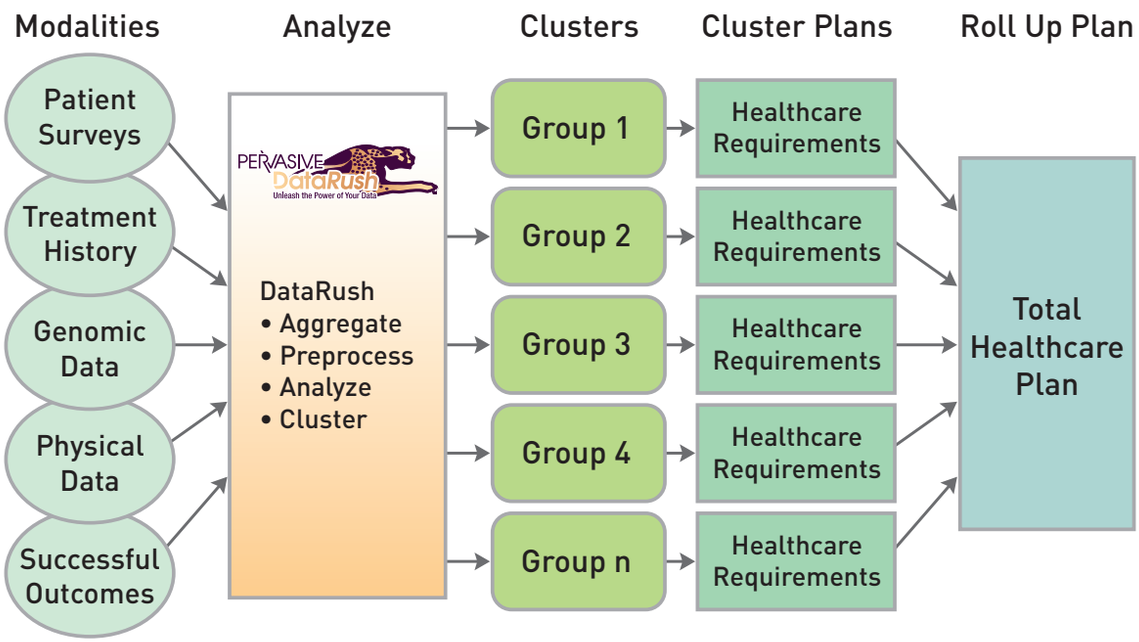
Pervasive DataRush: Highly Dimensional Predictive Analysis of Patient Health at Game–Changing Speeds

Taking Advantage of Multicore Technology for Early Detection, Better Health Planning and Patient Outcomes

Harness Multicore Processing for Disease Prevention and Detection at Unprecedented Speeds

Predictive health applications, to effectively identify precursors to disease before the onset of symptoms, must integrate and analyze highly dimensional patient information from multiple components and modalities – biochemistry, cognitive function, fitness, genes, imaging, lab results, patient surveys, nutrition and stress, among others. Researchers can now more quickly and effectively identify and analyze associations between multiple components and modalities by utilizing the multicore processing and analytic capabilities of Pervasive DataRush™. Such analysis aids early awareness and detection. This allows medical professionals to formulate preventive care or treatment plans that can improve patient outcomes and quality of life.

Healthcare Planning Scenario



Discovery Process

Discovering relationships between components and modalities often involves large volumes of heterogeneous data, with more than 100,000 variables, that must be analyzed in a timely manner—a daunting effort with today's legacy computing models. Fortunately, the new Pervasive DataRush paradigm provides the ability to analyze highly dimensional patient data from multiple sources at game-changing speeds.

The Pervasive DataRush dataflow computational model partitions data in three dimensions to enable concurrent processing—resulting in increased performance speeds on multicore hardware. It also scales to the number of available cores so more cores = more speed = more iterations.

Take a new approach to using vast amounts of data to solve some of your biggest problems. Pervasive DataRush is a revolutionary technology that is changing the paradigm for processing, cleansing and analyzing data. The platform enables solutions involving large or complex data sets to perform at **unprecedented speeds** with **increased accuracy** on a much **smaller computing footprint.**

Features

- Significantly increase processing speeds on a reduced computing footprint
- Dynamically scalable and transportable across different hardware platforms and operating systems
- Embeddable and ideally suited for predictive applications
- Rapid development and deployment on readily available multicore hardware

Pervasive Software invites you to learn more by contacting Pervasive DataRush at 1-866-980-RUSH (7874) or info@pervasivedatarush.com.

About Pervasive Software

For over two decades, Pervasive has helped thousands of customers around the world in every industry to manage, integrate and analyze their data. Pervasive DataRush is an embeddable software platform solution for data-intensive processing applications such as claims processing, risk analysis, fraud detection, bioinformatics and life sciences.

Contact Us

www.pervasivedatarush.com
1-866-980-RUSH (7874)
1-512-231-6818 (Main Office)

info@pervasivedatarush.com

Benefits

- Improve accuracy and timeliness of predictive health information
- Enhance results with potential to discover previously unknown relationships with increased dimensionality and data set size
- Reduce time to production for complex algorithms and models (more cores = more speed)
- Smaller computing footprint lowers cost and energy use

PLATFORM SUPPORT

Design-Time Platforms and Runtime Operating System Prerequisites

- Windows
- Windows XP
- Windows Vista
- Solaris
- IBM AIX
- Red Hat Enterprise Linux
- SUSE Linux Enterprise
- HP-UX

Processors

- Any Intel or AMD 32/64-bit CPU
- Any Sun SPARC 32/64-bit CPU
- Any IBM POWER Architecture 32/64-bit CPU

Java 6 JVMs

04

©2010 Pervasive Software Inc. All rights reserved. All Pervasive brand and product names are trademarks or registered trademarks of Pervasive Software Inc. in the United States and other countries. All other marks are the property of their respective owners.