S-PLUS® 8

S⁺ 8

Insightful®

+ S-PLUS® 8 Enterprise Developer

S-PLUS®8 Enterprise Developer enables statisticians and developers to create enterprise-class analytic applications and easily deploy them to business users, researchers, analysts, and other non-technical audiences. S-PLUS 8 Enterprise Developer is the only statistical programming platform that delivers a fully integrated development environment, a commercially supported analytic packaging system and the ability to scale your desktop to manipulate gigabyte class data sets.

"With S-PLUS we are able to prototype new models quickly to demonstrate how proposed changes will impact our manufacturing process. Powerful visualization techniques allow us to quickly and effectively communicate the impact of this change to less technical decision-makers."

Greg Stone
Senior Test Engineer, SyntheSys Research Inc.

+ Premier Statistical Programming Desktop

+ High Performance Data Preparation Tools

Data warehouses are growing every minute of every business day and each piece of the data collected may impact decisions going forward. S-PLUS provides the ability to read and manipulate your data within your development environment.
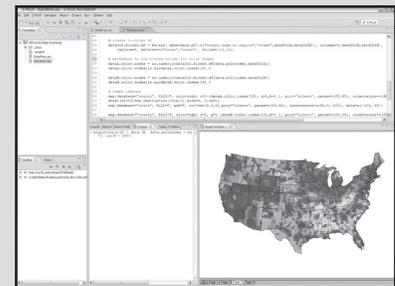
- Append or merge multiple data sets
- Transform existing columns
- Filter rows or columns according to specified criteria
- Efficiently sort rows by one or more index columns
- Randomly sample rows (with stratification)

- Partition data sets for analysis into training, test, and validation sets
- Perform roll-up tasks with stack and unstack operations
- Perform complex data manipulations on multiple data sets with a built-in SQL (Structured Query Language) processing engine

+ Intuitive Data Exploration Tools

Exploratory data analysis is an important step in any statistical analysis task, and S-PLUS 8 Enterprise Developer is designed to provide all the necessary tools to explore large data sets using both quantitative and visual techniques.

- Calculate over 30 univariate statistics with a single function call
- Calculate correlations and covariances
- Calculate cross-tabulations over one or more categorical variables
- Create and customize standard charts
- Create Trellis™ graphics for each level of a categorical variable
- Utilize specialized graphic techniques

Figure 1. Fully integrated development environment provides debugging and profiling tools

Produce Better Code Faster

Programmers can speed the development of their applications by using the new debugger and profiler. The interactive debugger quickly debugs S-PLUS code from within the S-PLUS workbench. The application includes step debugging and breakpoints. Write and develop functions in S-PLUS then profile the use of time and memory allocation within S-PLUS tasks. Your can optimize your code's execution by evaluating where bottlenecks exist and repairing them prior to deployment.

Gigabyte-Class Data Sets on Your Desktop

With our pipeline architecture, S-PLUS programmers can import or create extremely large data objects by using out-of-memory processing techniques. The pipeline architecture caches the data file on disk and uses specialized streaming algorithms to process the data, reading only a small portion of the data into memory at a time.

Port, Create and Deliver Complete Analytic Packages Anywhere

With the S-PLUS Package System you can create and distribute fully executable S-PLUS libraries of functions. You can also port R packages for use in S-PLUS. Deliver the latest in statistical research with rigor and reliability to your colleagues.

Deploy Analytic Applications with S-PLUS Enterprise Server

Make the benefits of your statistical analysis available to decision-makers at every level of your organization with S-PLUS Enterprise Server. S-PLUS Enterprise Server is based on the same scalable S language engine as S-PLUS Enterprise Developer so applications become production systems without changing the underlying code.

"S-PLUS Enterprise Developer provides me with the tools necessary to work faster and more flexibly with clinical data. The superior quality of the graphs has made it easier for me to communicate across a broad audience including statisticians, drug safety personnel and physicians."

Harry Southworth
Statistical Science Director
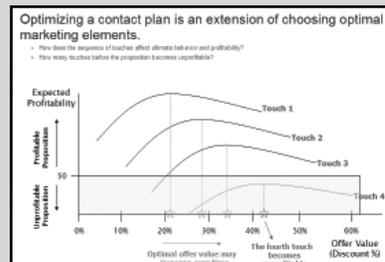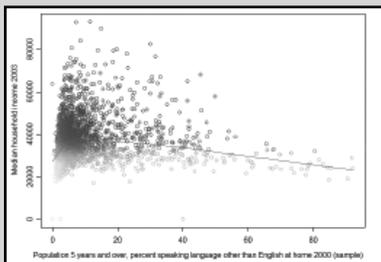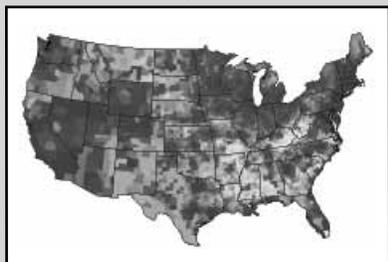*AstraZeneca.*

System Requirements

S-PLUS 8 for WINDOWS® is supported on the following platforms:

- Windows® XP Professional Edition
- Windows Vista™
- Windows support via CITRIX® and Terminal Services

S-PLUS 8 for UNIX/LINUX is supported on the following platforms:

- Sun Solaris® 2.8, 2.9, 2.10 on SPARC® processors (workstation only)

- Red Hat® Enterprise Linux® Desktop 3.0 and 4.0 (32-bit and 64-bit)(desktop only)

Figure 2. Standard and custom, interactive graphics makes communicating results easy and effective

+ For more information please visit www.insightful.com or email info@insightful.com

Insightful®
the knowledge to act™

About Insightful Corporation:
Insightful Corporation (NASDAQ: IFUL) is a leading provider of predictive analytics and reporting solutions that provide companies the knowledge to act™. Insightful products allow companies to perform sophisticated statistical data analysis and data mining, and to create high-quality graphics from numeric and text data. Insightful consulting services provide specialized expertise and proven processes for the design, development and deployment of customized solutions.

Global Headquarters:
Tel: 206.283.8802
Fax: 206.283.6310
info@insightful.com

Insightful Switzerland:
Tel: +41 61 717 9340
Fax: +41 61 717 9341
info.ch@insightful.com

Insightful UK:
Tel: +44 (0) 1256 339800
Fax: +44 (0) 1256 339839
info.uk@insightful.com

Insightful France:
Tel: +33 (0) 153 43 93 82
Fax: +33 (0) 153 43 94 94
info.fr@insightful.com