New Time-Series NetCourse announced R2 Upcoming NetCourse schedule R2 New book from Stata Press R3 Fifth North American Stata Users Group meeting R3

THE STATA NEWS

Volume 21 Number 1

January/February/March 2006

www.stata.com

Stata/MP now shipping

Stata/MP is a new version of Stata/SE that runs on multiprocessor computers. Stata/MP provides the most extensive support for multiple-processor computers and dual-core computers of any statistics and data-management package.

Stata/SE continues to be the top-of-the-line product for single-processor computers.

The exciting thing about Stata/MP, and the only difference between Stata/MP and Stata/SE, is that Stata/MP runs faster—much faster. Stata/MP lets you analyze data in one-half to two-thirds of the time of Stata/SE on inexpensive, dual-core desktops. Stata/MP runs even faster on industrial-grade multiprocessor servers and supports up to 32 processors.

Stata/SE 9 users may upgrade to Stata/MP for two processors (dual core or multiple CPU) for \$400 (academic) and \$835 (industry/government). To order, visit http://www.stata.com/order/ or call 800-782-8272 (U.S.) or 979-696-4600 (worldwide).

Figure 1 summarizes the performance differences between Stata/SE and Stata/MP.



In a perfect world, software would run twice as fast on two processors, three times as fast on three processors, and so on. Stata/MP achieves 72% efficiency. It runs 1.4 times faster on two processors, 1.75 times faster on three processors, and 2 times faster on four processors. These values are median speed improvements.

Half the commands run even faster, and a few even achieve performance beyond what might be considered theoretically possible (more than twice as fast on two processors, etc.) because multiprocessor systems have multiple caches, too.

On the other side of the distribution, a few commands are not sped up at all, either because they are inherently sequential (time-series commands) or because no effort was made to parallelize them (graphics, **xtmixed**).

We worked hard to make sure that the performance gains of commands that take longer to run would be greater. Stata's estimation commands achieve 88% efficiency. Estimation commands run 1.7 times as fast on two CPUs, 2.3 times as fast on three CPUs, and 2.8 times as fast on four CPUs. Stata/MP supports up to 32 CPUs.



Figure 1: Performance of Stata/MP. Speed on multiple processors relative to speed on a single processor.

For a complete assessment of Stata/MP's performance, including commandby-command statistics, see the white paper *Stata/MP Performance Report* at http://www.stata.com/statamp/report.pdf. Also see http://www.stata.com/statamp/.

Stata/MP is 100% compatible with Stata. Analyses do not have to be reformulated or modified in any way to obtain Stata/MP's speed improvements.

Stata/MP is available for the following operating systems:

- Windows (32- and 64-bit processors)
- Macintosh OS X (Intel processors)
- Linux (32- and 64-bit processors)
- Solaris (64-bit SPARC)

To run Stata/MP, you can use a desktop computer with a dual-core processor or a server with multiple processors. Whether a computer has two separate processors or one dual-core makes no difference. More processors or cores means that Stata/MP will run faster.

See http://www.stata.com/products/opsysmp.html for more advice on hardware.

New Time-Series NetCourse[™] announced

NetCourse 461, Introduction to Univariate Time Series Using Stata, explains the concepts of univariate time series and illustrates how to use Stata to perform descriptive analyses, regression modeling, and forecasting. Written for people who are already familiar with basic cross-sectional statistical methods, the course addresses potential pitfalls that may arise when using cross-sectional techniques with time-series data and presents alternative methods. The course assumes that students have prior basic experience with Stata at the level of NetCourse 101 or its equivalent.

The first lecture begins with an overview of manipulating timeseries data, such as using tsset, using time-series operators, and graphing time-series data. The lecture also covers basic smoothing and forecasting techniques such as moving averages, exponential smoothers, and the Holt–Winters methods.

The second lecture is all about describing the properties of timeseries data and covers stationarity, autoregressive and moving-average processes, the sample autocorrelation and partial autocorrelation functions, and the periodogram.

The third lecture covers ARIMA models as forecasting tools. Topics include model selection, seasonality, and intervention analysis.

The fourth lecture shows how to do regression analysis and statistical inference with time-series data, with an emphasis on how techniques suitable for cross-sectional data must be modified to account for properties typically encountered with time-series data such as autocorrelation and ARCH.

Lest anyone get the impression that Stata does only univariate timeseries analysis, a bonus fifth lecture will introduce students to Stata's suite of commands for vector autoregressions (VARs), structural VARs, and cointegration models.

Upcoming NetCourse[™] schedule

Enroll by visiting http://www.stata.com/netcourse/ or use the enclosed order form.

NC461. Introduction to Univariate Time Series Using Stata			
Prerequisites:	Stata 9; NC101 or equivalent knowledge		
Course leader:	Brian Poi		
Course length:	7 weeks (4 lectures + overview of multivariate methods)		
Dates:	June 16–August 4, 2006		
Enrollment deadline:	June 15, 2006		
Cost:	\$295		
Course syllabus:	http://www.stata.com/netcourse/nc461.html		

NC101. Introduction to Stata

Content:	An introduction to using Stata interactively
Prerequisites:	Stata 9
Course leaders:	Kevin Crow, Kerry Kammire, and Derek Wagner
Course length:	6 weeks (4 lectures)
Dates:	June 16–July 28, 2006
Enrollment deadline:	June 15, 2006
Cost:	\$95
Course syllabus:	http://www.stata.com/netcourse/nc101.html

NC151. Introduction to Stata Programming

	······································
Content:	An introduction to using Stata programming dealing with what most statistical software users mean by programming, namely, the careful performance of reproducible analyses
Prerequisites:	Stata 9; basic knowledge of using Stata interactively
Course leaders:	Kevin Crow, Kerry Kammire, and Derek Wagner
Course length:	6 weeks (4 lectures)
Dates:	June 16–July 28, 2006
Enrollment deadline:	June 15, 2006
Cost:	\$125
Course syllabus:	http://www.stata.com/netcourse/nc151.html

NC152. Advanced Stata Programming

Content:	Advanced issues of programming in the Stata language, focusing on writing commands for general use
Prerequisites:	Stata 9; NC151 or equivalent knowledge
Course leaders:	Kevin Crow, Kerry Kammire, and Derek Wagner
Course length:	7 weeks (5 lectures)
Dates:	October 6-November 24, 2006
Enrollment deadline:	October 5, 2006
Cost:	\$150
Course syllabus:	http://www.stata.com/netcourse/nc152.html

HOW TO REACH US

StataCorp	PHONE	979-696-4600
4905 Lakeway Drive	FAX	979-696-4601
College Station, TX 77845	EMAIL	stata@stata.com
USA	WEB	www.stata.com

Please include your Stata serial number with all correspondence.



Copyright 2006 by StataCorp LP.

NEW BOOK FROM STATA PRESS



Title: An Introduction to Stata for Health Researchers Authors: Svend Juul Publisher: Stata Press Copyright: 2006 ISBN: 1-59718-010-6 Pages: 326; paperback Price: \$47.75

Stata contains powerful tools for performing data management, statistical analysis, and graphics. Writing an introductory text that covers all three of those subjects is no easy feat. *An Introduction to Stata for Healtb Researchers*, by Svend Juul, manages to accomplish that task by focusing on those topics that are most useful to those involved in medical research.

The first two chapters show you how to install and update Stata, introduce you to the various components of the Stata GUI, and demonstrate how to learn more from Stata's help files, as well as from the wealth of online information available through commands such as **search** and **findit**.

The next several chapters deal with essential topics like loading your first dataset into Stata; creating and manipulating variables; working with missing values; documenting your work by attaching labels to values, variables, and datasets; and exchanging data with other packages. Throughout this section, the author does a great job of putting himself in the shoes of the new user, covering all key information.

Chapter 10 is devoted to summary statistics, tables, and simple tests, like one-way ANOVAs and t tests. Chapter 11 provides a remarkable introduction to Stata's graphics system, covering in just 57 pages virtually all aspects that a user typically encounters in day-to-day work. The chapter is replete with examples, and Juul explains new features and options as they appear.

Although the book is billed as a Stata introduction, experienced Stata users will have much to gain from the biostatistical discussion of chapters 12–15. This section covers the usual topics for health researchers: analysis of stratified data via epitab and regression models; linear, logistic, and Poisson regression; and survival analysis including Cox regression, standardized rates, and correlation/ROC analysis of measurements—just to name a few. In discussing these methods, the author does an excellent job of showing how they relate to each other, such as the analysis of a stratified case—control study using both mhodds and logistic. Sometimes the methods agree exactly and sometimes they don't, and the text explains the change in model assumptions leading to the differences.

The text concludes with some supplementary material on advanced topics, such as sample-size calculations, simulation, some Stata programming concepts, and tips on caring for your data and maintaining reproducibility.

An Introduction to Stata for Health Researchers is an excellent resource to help you become productive with Stata as quickly as possible, and the chapters on data management, graphics, and statistics are superb references even for the experienced user. The table of contents, as well as online ordering information, can be found at http://www.stata-press.com/books/ishr.html. You may also order by using the enclosed bookstore order form.

Fifth North American Stata Users Group meeting Announcement and registration

Date: July 24–25, 2006 Venue: Longwood Galleria Conference Center 342 Longwood Avenue Boston, MA 02115-5745

The first day of the fifth North American Stata Users Group meeting will showcase user presentations on a broad variety of topics—for example:

- •Using Stata for modeling and analysis
- •User-written Stata programs
- •Using Stata to import and manage data
- •Using Stata for graphics
- •Teaching Stata
- Teaching statistics with Stata
- Surveys or critiques of Stata facilities in specific fields
- Software comparisons

The user presentations are being organized by Kit Baum, Liz Allred, and Rich Goldstein. The second day will include several lectures by the following invited speakers:

- Matching Methods for Estimating Treatment Effects Using Stata Guido W. Imbens Department of Economics, University of California–Berkeley
- *Econometric Analysis of Time-Series Data Using Stata* David M. Drukker Director of Econometrics, StataCorp

Group Comparisons and Other Issues in Interpreting Models for Categorical Outcomes Using StataJ. Scott LongDepartment of Sociology, Indiana University

Estimation and Interpretation of Inequality Measures Using Stata Stephen P. Jenkins Institute for Social and Economic Research, University of Essex

Submissions

If you are interested in presenting a paper, please submit an abstract (200 words maximum, ASCII text, no math symbols) by May 15 to http://repec.org/nasug2006/nasug1.php.

Please contact the organizers with questions or to discuss ideas for presentations.

acic

Conference facilities and accommodations

The North American Stata Users Group meeting has been held in Boston since the meeting originated in 2001. The conference center is part of the Best Western Inn at Longwood. A block of rooms has been reserved for July 23-25. The discounted group rate is \$159.00 per night, plus 12.45% tax for one to four people. The last day to make a reservation at the discounted rate is June 30.

To reserve a room, call the Best Western Inn at Longwood (617-731-4700 or 800-468-2378) and ask for in-house reservations. Please refer to the StataCorp North American Stata Users Group meeting.

Registration and information

http://www.stata.com/meeting/5nasug/ Web:

Email: stata@stata.com

979-696-4600 or toll-free 800-782-8272 Tel:

Fax: 979-696-4601

Event	Price	Student price
Day 1: Users Group meeting	\$85	\$35
Day 2: Invited presentations	\$100	\$35
Both days: Users Group meeting and invited presentations	\$150	\$55
Day 1: Optional dinner Restaurant TBA	\$35	\$35

Register online at http://www.stata.com/meeting/5nasug/register.html or use the enclosed registration form. The registration deadline is July 17, 2006.

Program committee

Kit Baum, baum@bc.edu Boston College and RePEc

Elizabeth Allred, lizard@hsph.harvard.edu Harvard School of Public Health

Rich Goldstein, richgold@ix.netcom.com Consultant

INTERNATIONAL DISTRIBUTORS

Chips Electronics Serving Brunei, Indonesia, Malaysia,

Singapore tel: 62-21-452 17 61 email: puyuh23@indo.net.id

Columbia CP. Ltd.

Serving China, Hong Kong, <mark>Indonesia</mark>, Malaysia, Philippines, Singapore, Thailand Vietnam tel: + 86-131-47501748 China

+852-28580080 HK +65-68425538 Singapore +603-56389268 Malaysia +63-2-564-7757 Philippines +66-1-8346814 Thailand email: sales@columbiacp.com

Cosinus Computing BV Serving The Netherlands tel: +31 416-378 125 email: info@cosinus.nl

Dittrich & Partner Consulting

Serving Austria, Czech Republic Germany, Hungary tel: +49 2 12 / 26 066-0 email: sales@dpc.de

iXon Technology Company, Ltd. Serving Taiwan

tel: +886-(0)2-27045535 email: hank@ixon.com.tw

JasonTG Serving South Korea

tel: +82-2-470-4143 email: info@jasontg.com

MercoStat Consultores Serving Argentina, Brazil, Paraguay, Uruguay tel: 598-2-613-7905 email: mercost@adinet.com.uv

Metrika Consulting Serving the Baltic States, Denmark,

Finland, Iceland, Norway, Sweden tel: +46 (0)8-792 47 47 email: metrika@metrika.se

MultiON Consulting S.A. de C.V. Serving Belize, Costa Rica, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama tel: 52 (55) 5559 4050 email: direccion@multion.com.mx

Quantec Research (Pty), Ltd. Serving South Africa, Southern Africa, Côte d'Ivoire, Ghana tel: +27-12-3615154 email: software@quantec.co.za

Ritme Informatique

Serving Belgium, France, Luxembourg tel: +33 (0)1 42 46 00 42 email: info@ritme.com

Scientific Formosa, Inc. Serving Taiwan

tel: 886-2-25050525 email: amanda@sciformosa.com.tw

Scientific Solutions, S.A. Serving Switzerland tel: 41 (0)21 711 15 20

email: info@scientific-solutions.ch SOFTWARE shop, Inc. Serving Bolivia, Chile, Colombia, Ecuador, Peru, Venezuela

tel: 425-651-4090 email: Ventas@SOFTWARE-shop.com

Survey Design & Analysis Services Serving Australia, New Zealand tel: +61 (0)3 9878 7373 email: sales@survey-design.com.au

Timberlake Consultants Serving Eire, Ireland, UK tel: +44 (0)208 697 3377 email: info@timberlake.co.uk

Timberlake Consulting S.L. Serving Spain tel: +34 (9) 5 560 14 30 email: timberlake@timberlakeconsulting.com

Timberlake Consultores, Lda. Serving Portugal tel: +351 245 308 549 email: info@timberlake.pt

TStat S.r.I. Serving Italy tel: +39 0864 210101 email: tstat@tstat.it

Vishvas Marketing-Mix Services Serving India tel: 91-22-25892639 email: vishvas@vsnl.com

INTERNATIONAL RESELLERS

Axoft Company

Serving Russia, Armenia, Azerbaijan, Belarus, Georgia, Kazakbstan, Kyrgyzstan, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan tel: +7-495 232-5215 email: info@axoft.ru

BockyTech, Inc. Serving Taiwan

tel: +886-2-23618050 email: raymond@bockytech.com.tw East Asia Training & Consultancy

Serving Indonesia, Malaysia, Singapore, Thailand, Vietnam tel: +65 62199062 email: stata@eastasiatc.com.sg

Informatique, Inc.

Serving Japan tel: +81-3-3505-1250 email: sales@informatig.co.jp

MP & Associates

Serving Greece, Cyprus tel: +30-210-7600955 email: info@mpassociates.gr **NFUCA** Serving Japan tel: 81-3-5307-1133 email: softinfo@univcoop.or.jp

Tashtit Scientific Consultants, Ltd. Serving Israel

tel: +972-3-523-0825 email: info@tashtitsoft.co.il

Timberlake Consultores Brasil

Serving Brazil tel: +55-11-3040-3042 email: info@timberlake.com.br

Timberlake Consultants Polska Serving Poland

tel: +48 600 370 435 email: info@timberlake.pl Token Communication, Ltd.

Serving Romania tel: +40 264 450201 email: token@pcnet.ro

UYTES

Serving Turkey tel: +90 312 446 1866 email: info@uytes.com.tr

