Summary of important EViews-Commands

Import of data from EXCEL:

if the xlsx-format does not work, use File.xls

Choice of sample period:

Sample / @all @first @last 1990 2010 1981Q3 2005Q1 1960M1 2000M11

in command line e.g.: smpl @first 1990

Univariate statistics:

Click series / View / Spreadsheet data as numbers Graph Graphics Descriptive Statistics&Tests z.B. histogram, mean, etc. Correlogram autocorrelationen

Generation/Transformation of series:

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Generate / x = 0 generates a series with zeros
Generate / pi = (pc - pc(-1))/pc(-1)*100
Generates the inflation rate in % based on prices pc
Generate / x = log(y) taking logs
Generate / dlx = dlog(x) dlx = log(x) - log(x(-1))
Growth rate in continuous time
Generate / y = exp(x) exp(x)
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as command: series x=0

Trend variable (linear): Generate / t = @trend

Standard normal distributed realizations: Generate / x = nrnd

Lags, lagged variables, taking differences:

```
Generate / x1 = x(-1)  x1(t) = x(t-1), Lag 1 of x

Generate / dx = d(x)  dx(t) = x(t) - x(t-1) = (1-B)x(t)

first difference

Generate / d2x = d(x,2)  d2x(t) = dx(t) - dx(t-1) = (1-B)^{(2)}x(t)

taking first differences twice

Generate / d12x = d(x,0,12)  d12x(t) = x(t) - x(t-12) = [1-B^{(12)}]x(t)

seasonal difference for monthly data

Generate d12_1x = d(x,1,12)  d12_1x(t) = (1-B)[1-B^{(12)}]x(t)
```

Geneartion of dummy variables:

seasonal dummies: s=1,2,3,...
Generate / ds = @seas(s)

as command: series ds = @seas(s)

Generate / d1 = 0 and manually in View/Spreadsheet
use Edit+/-

p-value for x of a test statistic as command:

(N-, t-, Chi2-, F-distribution) scalar p = 1 - @cnorm(x)1-sided, right scalar p = 1 - @cnorm(abs(x))*22-sided scalar p = 1 - Qctdist(x,df)1-sided, right scalar p = 1 - Qcchisq(x, df)scalar p = 1 - @cfdist(x, df1, df2)df ... degrees of freedom Determinant of correlation matrix: (as command) group grpx x1 x2 x3 x4 group assigned to a data matrix matrix x = @convert(grpx) scalar det = (det((cor(x))))@cor(X) makes correlation matrix Statistics for 2 or more series: Correlation matrix: Mark the series by klicking / right mouse / Open as Group / View / / Covariance Analysis (z.B. Correlation) as command e.g.: scalar corrxy = (cor(x,y)) bivariate correlation coeff Estimation: Quick / Estimate Equation / y c x1 x2 y = a1 + a2*x1 + a3*x2 + uOption: LS ... OLS Enter the estimation period as command: ls y c x1 x2 with storage in equation "eq3": eq3.ls y c x1 x2 ARMA Model: Option: LS Model specification: y c AR(1) AR(2) MA(1) MA(2) MA(3) ARMA(2,3) with non zero mean with heteroscedasticity robust standard errors: Options: Covariance Coefficient Matrix / White (z.B.) System estimation: Open a multivariate equation system: Object / New Object / System Equations e.g.: y1 = c(1) + c(2) * x1 + c(3) * y2 $y^2 = c(4) + c(5) \times 2 + c(6) \times 3$ Instruments if needed e.q.: inst x2 z7 Choose estimation method Forecasting with LS, ...: in LS Output (Equation) / Forecast Forecast period, enter series name for forecasted values (e.g. yf) and forecast error stdev (e.g. syf). Plot of the forecast: Object in Workfile menu / New Object / Group / (or mark series with mouse / right click Open / as Group) Enter the elements: yf forecasted values observed values У (yf - 1.96*syf) forecast interval, lower border (yf + 1.96*syf) forecast interval, upper border

Testing for structural breaks:

in Equation / View / Stability Diagnostics /
/ Chow Breakpoint Test / Enter: Start of 2., 3., ... period
/ Chow Forecast Test / Enter: Start of 2.period, ...
/ Recursive Estimates / CUSUM

Statistics for residuals: autocorrelation, heteroscedasticity

in Equation / View / Residual Diagnostics / ...

Autocorrelation, Heteroscedasticity

Storing residuals:

in Equation / Proc / Make Residual Series

Testing for Unit Roots: View / Unit Root Test (Augmented Dickey Fuller)

Testing for cointegration:

Collect the variables in a group / View / Cointegration Test (Johansen)

Estimation of a VAR or CIVAR:

Mark dependent variables / Open as VAR (with right mouse-button)