#### Summary of important EViews-Commands

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

```
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:
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)
as command: series x=0
Trend variable (linear):
Generate / t = @trend
Standard normal distributed realizations:
Generate / x = nrnd
Lags, lagged variables, taking differences:
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+/-
```

```
(N-, t-, Chi2-, F-distribution)
scalar p = 1 - @cnorm(x)
                                         1-sided, right
scalar p = 1 - @cnorm(abs(x))*2
                                         2-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)
                                  @cor(X) makes correlation matrix
scalar det = @det( @cor(x) )
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 + u
Option: LS ... OLS
Enter the estimation period
as command: ls y c x1 x2
with storage in equation "eq3": eq3.1s y c x1 x2
ARMA Model:
Option: LS
Model specification:
y \in 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
y2 = c(4) + c(5)*x2 + c(6)*x3
Instruments if needed e.g.:
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:
                                forecasted values
уf
                                observed values
У
(yf - 1.96*syf)
                                forecast interval, lower border
                             forecast interval, upper border
(yf + 1.96*syf)
```

## 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)