6) Interpreting GARCH model output

. Titles refer to their actual printout titles.

Optimal parameters

. Provides info about estimates

L'significance of mean V variance equation terms

kobust standard errors

. Same as above but std. errors

are robust against violations of the normal distribution assumption

Ly If inconsistent w/ above, implies

this ass. is imp. for interp.

Information criteria

. Only useful for compouring diff. Model outputs - the smaller the leter.

Weighted Ljung-Box test on standardised residuals

· Hoo there is no autocorrelation in the mean egn residuals oforder 1 to 2.

. Ha: there is owtocorrelation " " "

. The outcome of this should not be

a surprise ble you'd know from He correlograms. It might be

when you set mean ogn there

was some autocorrelation, but not sufficiently mouter all to merit & 6/c of a6s, value of sig. spikes.

Weighted Ljung-Box test on standardisel Squared residuals

. Same test as previously but tor squared resids

Lo Rejecting Ho here indicates your variance egn is not correctly specified

Weighted ARCH-LM tests

. Ho: there are no ARCH effects remaining in the error term

for lag p.
. Ha! there are ARCH """

. Also indicates it variance quisiff.

Nyblan stability test

. tests for structural change in the data generating process jointly k individually.

Loto do this compore the test stat to crit value if greater than

of then you can reject that given test at the x1, significance

level.

-oHelpful to compare mean us. var atumes

Sign bids tests
. Tests on if negative of positive shocks have diff.

values on future volatility
Lo "leverage effect"
. Ho! no leverage effect
. Ha! leverenge effect

Pearson goodness of fit.

. Compare the empirical

. St. of standardised residuals

. With the chosen cord. dist.

of E (specified in speccall

- usually normal)

. "groups refers to 6ins"

. H.: empirical list reflects

. Chosen

· Ha: emprical dist does not reflect chosen.