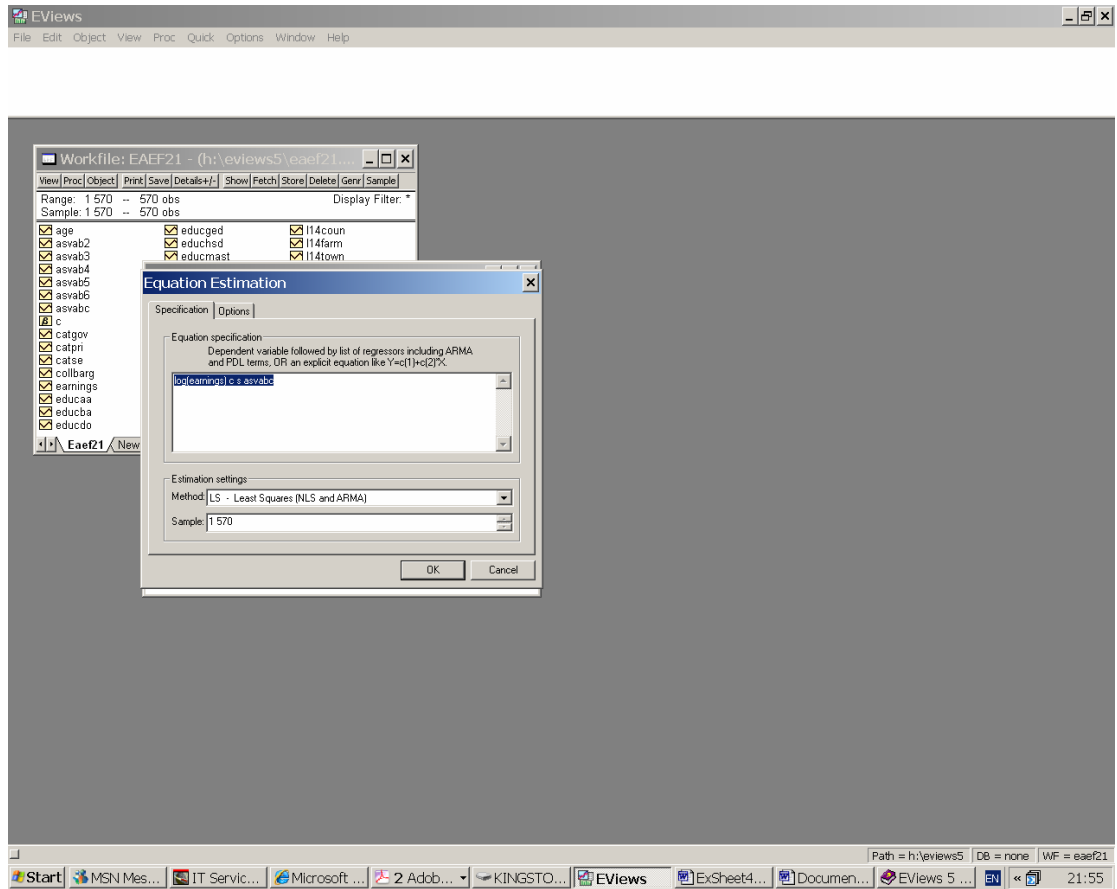


Standard Errors allowing for Heteroskedasticity



Workfile: EAEF21 - (h:\eviews5\eaef21...)

View Proc Object Print Save Details+ Show Fetch Store Delete Genr Sample

Range: 1 570 -- 570 obs
Sample: 1 570 -- 570 obs Display Filter:

<input checked="" type="checkbox"/> age	<input checked="" type="checkbox"/> educged	<input checked="" type="checkbox"/> i14coun
<input checked="" type="checkbox"/> asrab2	<input checked="" type="checkbox"/> educbed	<input checked="" type="checkbox"/> i14farm
<input checked="" type="checkbox"/> asrab3	<input checked="" type="checkbox"/> educmast	<input checked="" type="checkbox"/> i14town
<input checked="" type="checkbox"/> asrab4		
<input checked="" type="checkbox"/> asrab5		
<input checked="" type="checkbox"/> asrab6		
<input checked="" type="checkbox"/> asrabc		
<input checked="" type="checkbox"/> c		
<input checked="" type="checkbox"/> catgov		
<input checked="" type="checkbox"/> catpr		
<input checked="" type="checkbox"/> catse		
<input checked="" type="checkbox"/> collbarg		
<input checked="" type="checkbox"/> earnings		
<input checked="" type="checkbox"/> educaa		
<input checked="" type="checkbox"/> educba		
<input checked="" type="checkbox"/> educdo		

EaeF21 / New

Equation Estimation

Specification Options

LS & TSLS options

- Heteroskedasticity consistent coefficient covariance
 - White
 - Newey-West
- Weighted LS/TSLS (not available with ARMA)
Weight:

Iteration control

Max Iterations: 500
Convergence: 0.0001
 Display settings

ARMA options

Starting coefficient values: OLS/TSLS
 Backcast MA terms

Derivatives

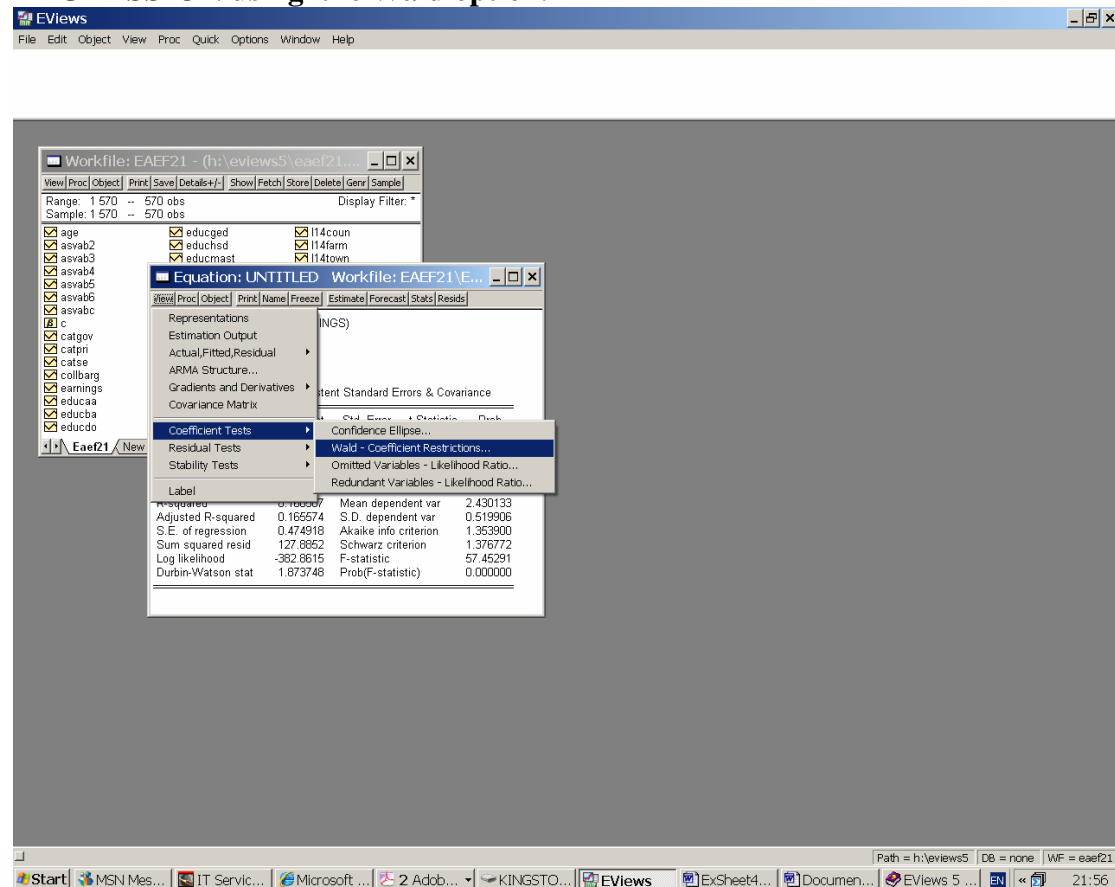
Select method to favor:
 Accuracy
 Speed
 Use numeric only

OK Cancel

Path = h:\eviews5 | DB = none | WF = eaef21

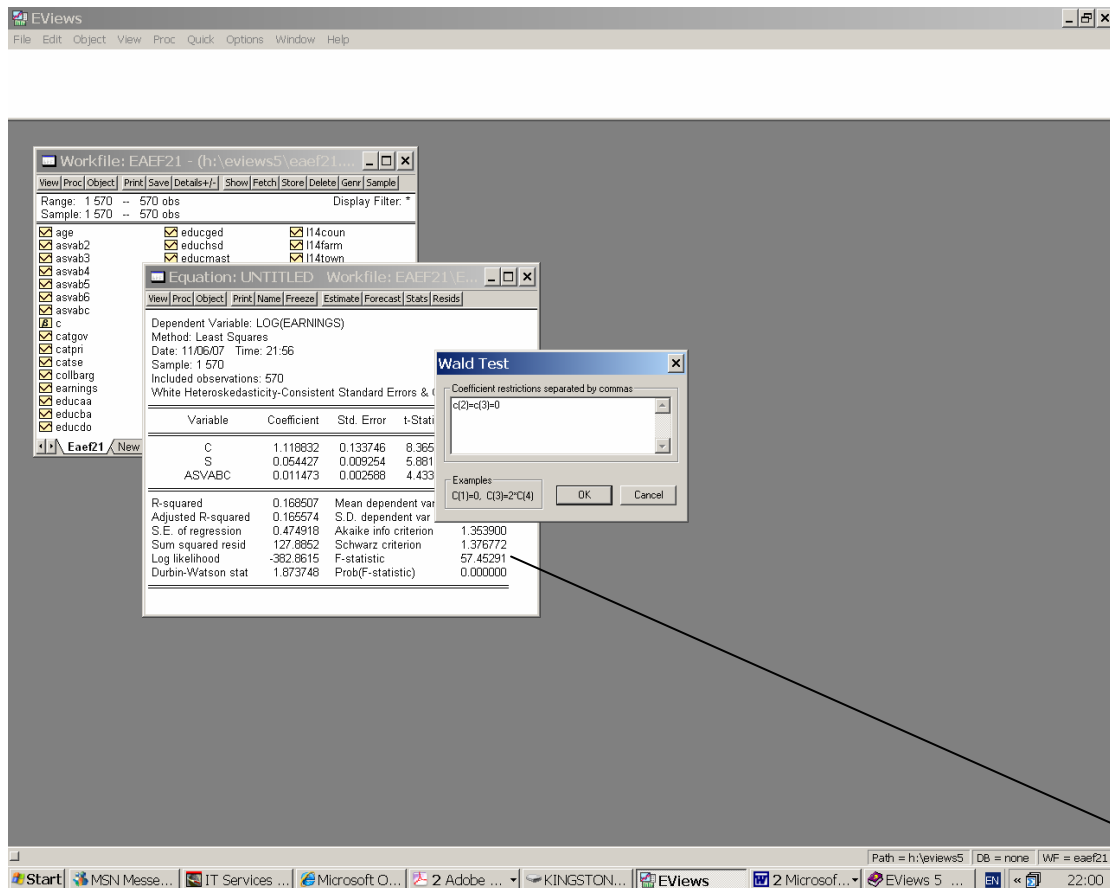
Start MSN Mes... IT Servic... Microsoft ... 2 Adob... KINGSTO... EViews ExSheet4... Documen... EViews 5 ... 21:55

ONCE YOU HAVE OBTAINED YOUR OUTPUT COMPUTE THE CORRECT F-STATISTIC FOR THE OVERALL SIGNIFICANCE OF THE REGRESSION using the Wald option.



$$H_0 : \beta_1 = \beta_2 = 0$$

We only have two coefficients, excluding the constant (which we call alpha). In EViews notation these coefficients are c(2) and c(3). c(1) would be the constant.



Here is your output:

Wald Test:

Equation: Untitled

Test Statistic	Value	df	Probability
F-statistic	49.55690	(2, 567)	0.0000
Chi-square	99.11381	2	0.0000

Null Hypothesis Summary:

Normalized Restriction (= 0)	Value	Std. Err.
C(2)	0.054427	0.009254
C(3)	0.011473	0.002588

Restrictions are linear in coefficients.

You can check that if you do NOT select the White standard errors when estimating the equation and then run the Wald test as we just did, you will obtain the same F-statistic that EViews provides by default (whether or not you are using the robust standard errors).

The F above does not take into account the possible heteroskedasticity. The one on the left does.