

מבוא לאקונומטריקה

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$$close_t = \alpha + \beta t + u_t$$

$$t = 1, 2, 3, \dots, 253$$

$$t = 1, 2, 3, \dots, T$$

Model 1: OLS, using observations 2010/12/06-2011/12/05 (T = 253)

Dependent variable: Close

	coefficient	std. error	t-ratio	p-value
const	1.347458874	0.01479959	91.0470219	2.92E-194
t	-0.00075447	0.00010102	-7.4686061	1.34E-12

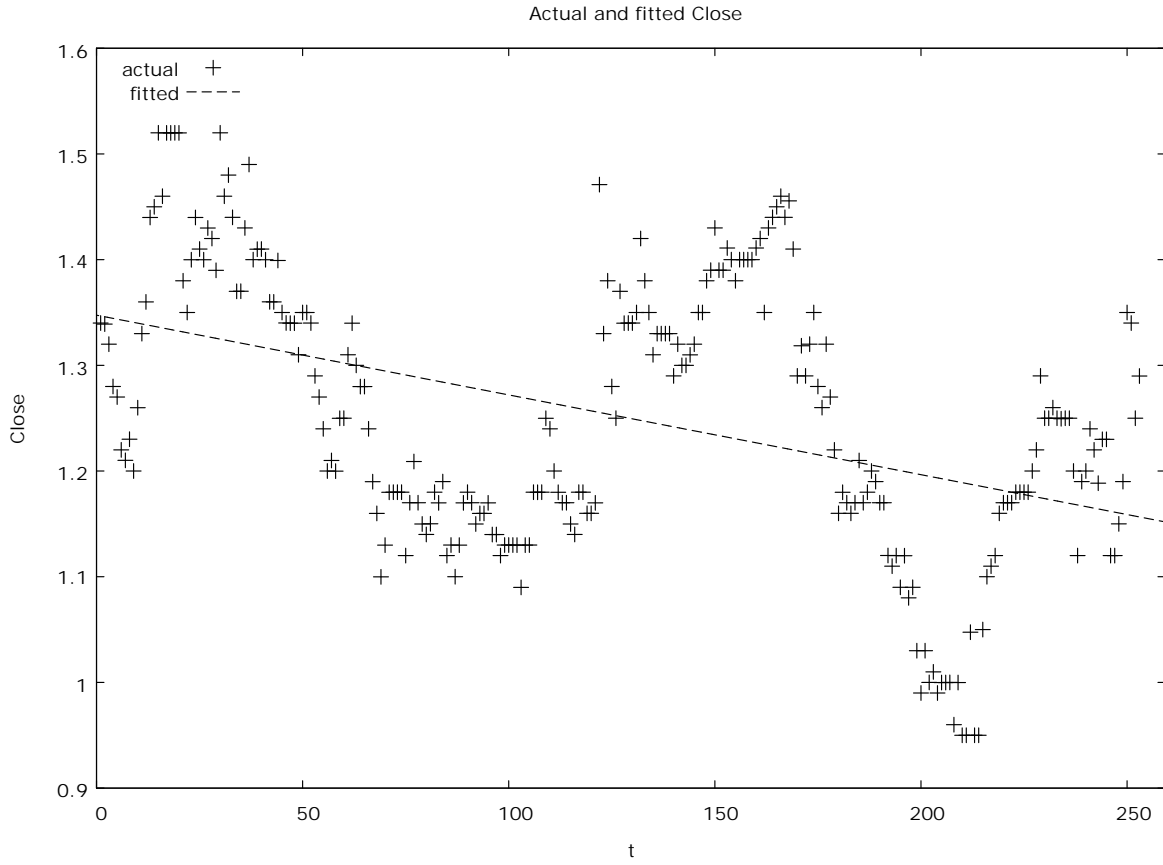
Mean dependent var	1.251640711
Sum squared resid	3.456657716
R-squared	0.181824316
Durbin-Watson	0.150188674

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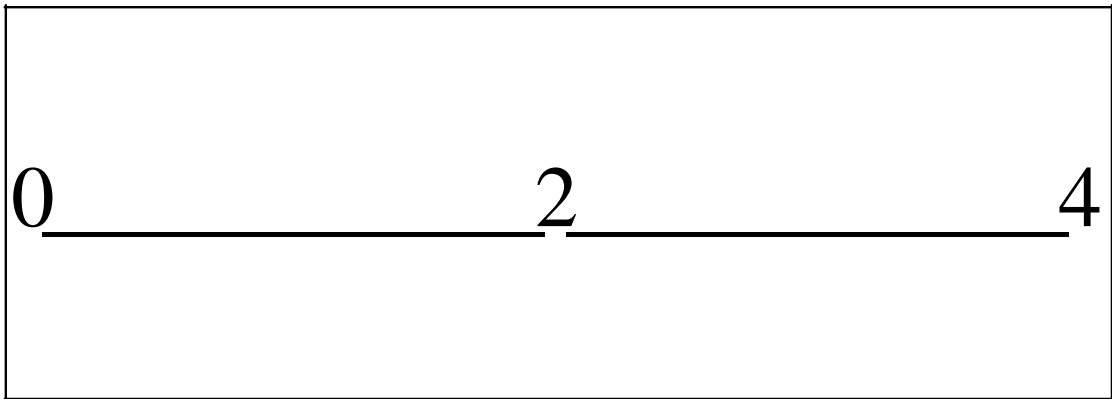
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Model 1-



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Model 2: Cochrane-Orcutt, using observations 2010/12/07-2011/12/05 (T = 252)

Dependent variable:Close

RHO = 0.92717

	coefficient	std. error	t-ratio	p-value
const	1.333206822	0.084054587	15.86120245	1.12E-39
t	-0.000602207	0.000532071	-1.131815778	0.2587963

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תחזית: מהו מחיר הסגירה הצפוי ביום המסחר הבא, 6.12.2011?

$$\hat{close}_{T+1} = \hat{r} + \hat{S} \cdot (T + 1) + \hat{e} \cdot e_T$$

_____ : \hat{e} , \hat{S} , \hat{r} , e_T .

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date	t	close	\hat{close}	e
05/12/2011	253	1.2899	1.1808	0.1091

..... $T + 1$ T

..... \hat{e} e_T

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.2012 -	45.6	,	(NASDAQ:ELTK) "	:	2013
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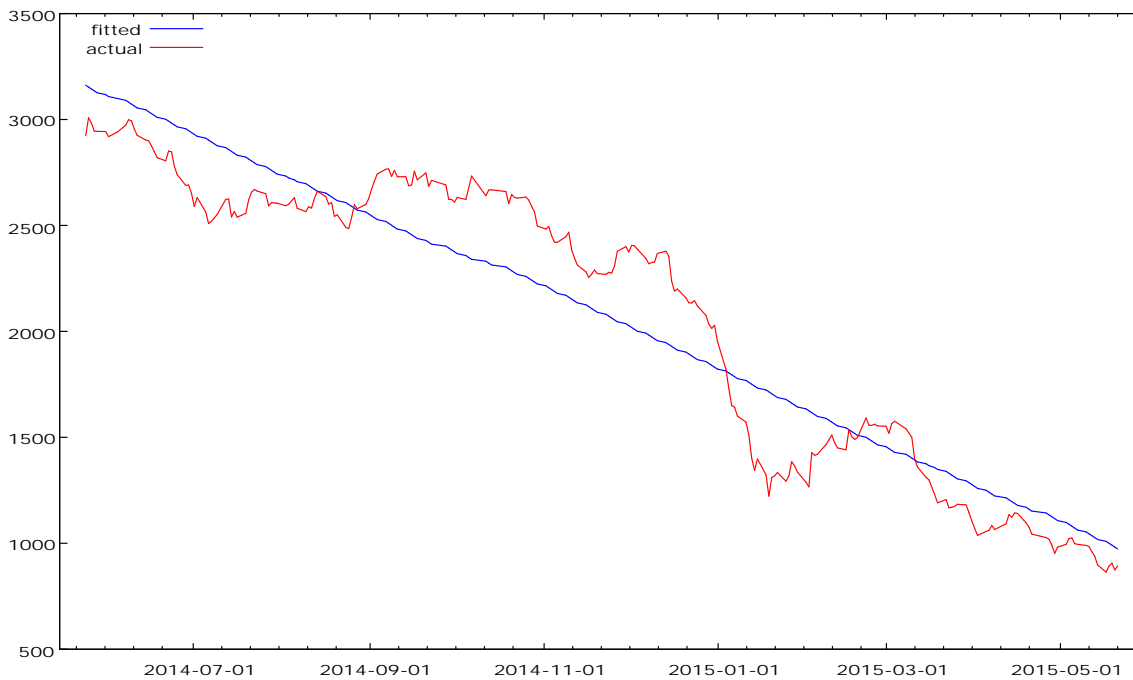
$$close_t = \Gamma + S \text{time} + u_t$$

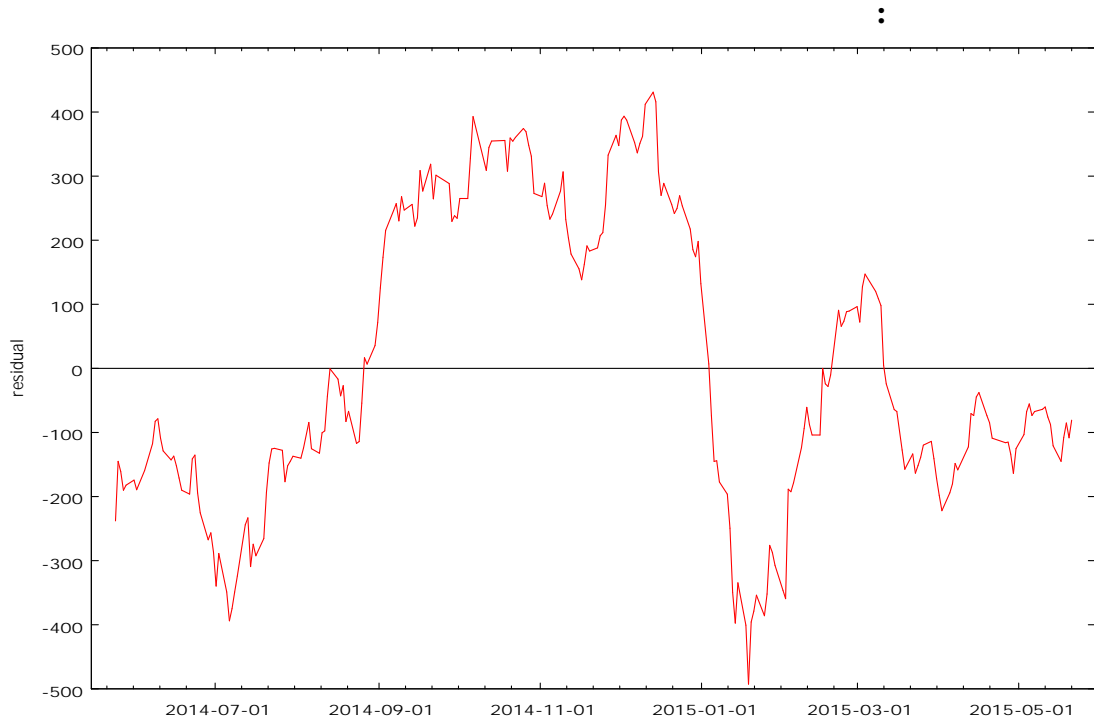
t , " , $- close_t$
 $1,2,3,\dots,246$ $1,2,3,\dots,T$ $- time$

Model 1: OLS, using observations 2014-05-25:2015-05-21 (T = 246)
 Dependent variable: close

	coefficient	std. error	t-ratio	p-value
const	3170.901	28.75552	110.271	3.63E-210
time	-8.93368	0.201848	-44.2594	1.41E-118
Mean dependent var	2067.592	S.D. dependent var	674.1352	
Sum squared resid	12332657	S.E. of regression	224.8192	
R-squared	0.889237	Adjusted R-squared	0.888783	
F(1, 244)	1958.892	P-value(F)	1.41E-118	
Log-likelihood	-1680.22	Akaike criterion	3364.435	
Schwarz criterion	3371.446	Hannan-Quinn	3367.258	
rho	0.982351	Durbin-Watson	0.031217	

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Durbin Watson

$$Y = r_0 + r_1 X_1 + u_1$$

$$Y = s_0 + s_1 X_1 + s_2 X_2 + s_3 X_3 + s_4 X_4 + u_2$$

$$.DW = 1.3 \quad , \quad 30$$

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.AR(1) :A

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.labor – ,capital – , prod –

Model 1: OLS estimates using the 25 observations 1-25

Dependent variable: prod

VARIABLE	COEFFICIENT	STDERROR	T-STAT	P-VALUE
const	-2705.55	3290.971	-0.82211	0.419835
capital	321.6381	64.60731	4.978355	5.55E-05
labor	537.8827	47.70994	11.27402	1.31E-10

Mean of dependent variable 71156

Standard deviation of dep.
var. 96609.59

Sum of squared residuals 2.98E+09

Standard error of residuals 11644.59

Unadjusted R-squared 0.986683

Adjusted R-squared 0.985472

F-statistic (2, 22) 814.987 p-value 2.34E-21

Durbin-Watson statistic 1.759267

First-order autocorrelation
coeff. 0.118368



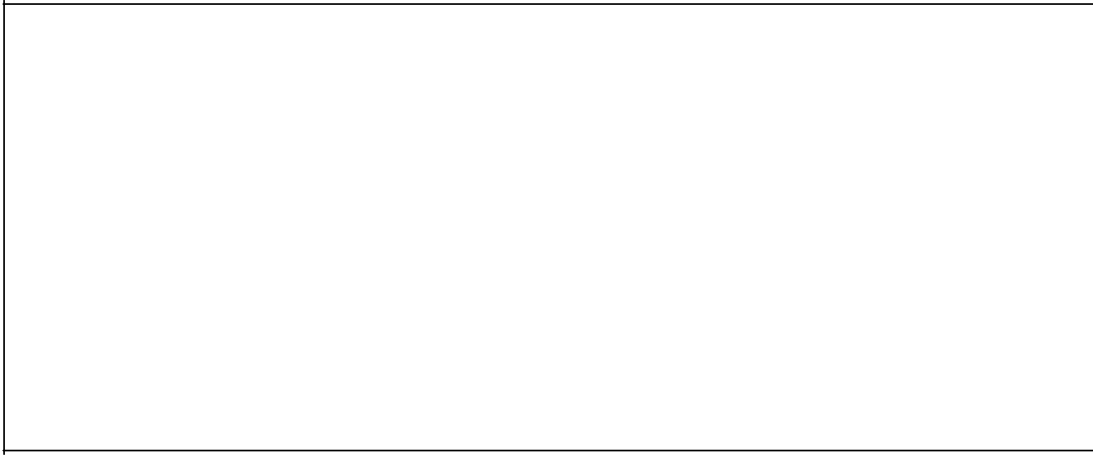
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Model 1: OLS, using observations 1970-2003 (T = 34)

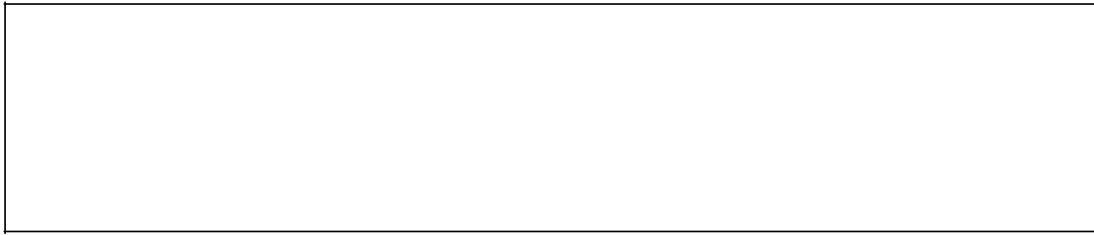
Dependent variable: land

	coefficient	std. error	t-ratio	p-value
const	124.0271	48.7412	2.544615	0.016138
psugar	0.466205	0.068001	6.855891	1.10E-07
pjute	-0.12066	0.05099	-2.36631	0.024397

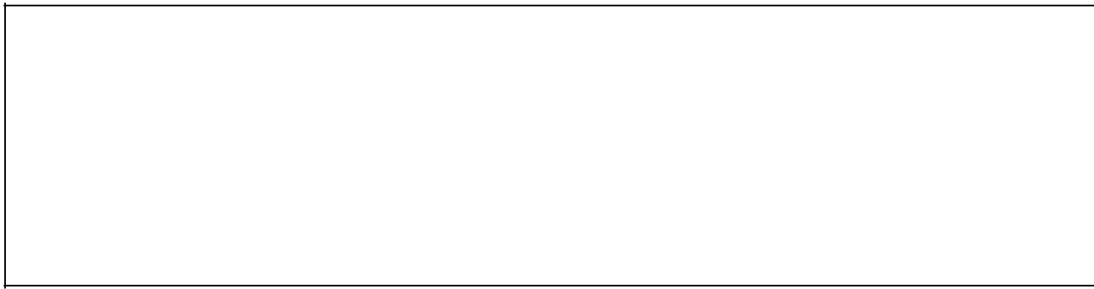
Mean dependent var	125.7059	S.D. dependent var	67.65265
Sum squared resid	59647.62	S.E. of regression	43.86476
R-squared	0.60508	Adjusted R-squared	0.579601
F(2, 31)	23.74841	P-value(F)	5.57E-07
Log-likelihood	-175.231	Akaike criterion	356.4627
Schwarz criterion	361.0418	Hannan-Quinn	358.0243
rho	0.311745	Durbin-Watson	1.366255



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