

程序代写代做 CS编程辅导

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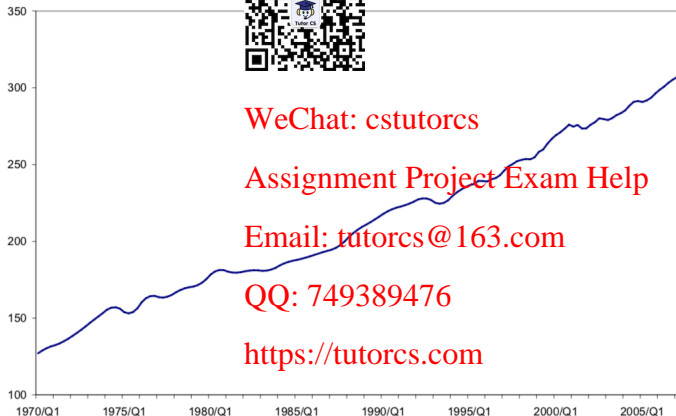
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Example

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Example: testing for a unit root in Australian real GDP (1970:Q1-2007:Q2)



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Dynamic procedure for testing for a unit root:

- ▶ **Step 1:** Estimate model with intercept and trend (Fig. 27)
 - ▶ ADF(5) specification has the smallest AIC and SBI with no autocorrelation in the residuals
 - ▶ Unit root not rejected (at 5% level): $-1.03 > -3.44$
 - ▶ Linear trend not significant (one-sided test at 5% level): $1.16 < 2.79$
- ▶ **Step 2:** Estimate model with intercept (Fig. 31)
 - ▶ Unit root cannot be rejected at 5% level of significance as $1.15 > -2.88$
 - ▶ Intercept is not significant as $0.80 < 2.54$ (one-sided test at 5% level of significance)
- ▶ **Step 3:** Estimate model without deterministic terms (Fig. 32)
 - ▶ Unit root not rejected (at 5% level): $4.34 > -1.94$

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ADF(5) with intercept on real GDP (1970:Q1-2007:Q2)

ADF Test Statistic 1.150628 1% Critical Value -3.767
5% Critical Value -3.315
10% Critical Value -3.173

*MacKinnon critical values for rejection of hypothesis of a unit root

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(GDP)
Method: Least Squares
Date: 09/13/07 Time: 16:59
Sample: 1972:1 2007:4
Included observations: 144

Variable	Coefficient	Std. Error	t-Statistic	Prob.
GDP(-1)	0.001767	0.001535	1.156628	0.2519
D(GDP(-1))	0.666251	0.063445	10.5195	0.0000
D(GDP(-2))	0.038060	0.097357	0.390930	0.6965
D(GDP(-3))	-0.109394	0.096958	-1.128261	0.2612
D(GDP(-4))	-0.327802	0.097330	-3.367954	0.0010
D(GDP(-5))	0.200781	0.083489	2.404769	0.0186
C	0.265527	0.332088	0.797762	0.4204
<hr/>				
R-squared	0.485086	Mean dependent var	1.219947	
Adjusted R-squared	0.462536	S.D. dependent var	1.162932	
S.E. of regression	0.852569	Akaike information criterion	1.162932	
Sum squared resid	99.58163	Schwarz criterion	2.710630	
Log likelihood	-177.7710	F-statistic	21.51068	
Durbin-Watson stat	1.984737	Prob(F-statistic)	0.000000	

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ADF(5) with no deterministic trend on Australian real GDP

ADF Test Statistic 4.340524
1% Critical Value -3.438861
5% Critical Value -2.864637
10% Critical Value -2.567581



*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(GDP)
Method: Least Squares
Date: 09/13/07 Time: 17:00
Sample: 1972:1 2007:4
Included observations: 144

Variable	Coefficient	Std. Error	t-Statistic	Prob.
GDP(-1)	0.002871	0.000668	4.301531	0.0001
D(GDP(-1))	0.671369	0.063490	10.58151	0.0000
D(GDP(-2))	0.038654	0.097226	0.397569	0.6916
D(GDP(-3))	-0.109408	0.096830	-1.129894	0.2605
D(GDP(-4))	-0.327721	0.097209	-3.371566	0.0010
D(GDP(-5))	0.206418	0.063481	3.250426	0.0016
R-squared	0.482694	Mean dependent var	1.219947	
Adjusted R-squared	0.463952	S.D. dependent var	1.162932	
S.E. of regression	0.851445	Akaike info criterion	2.561010	
Sum squared resid	100.0442	Schwarz criterion	2.680752	
Log likelihood	-178.1047	Durbin-Watson stat	1.987609	

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Example

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Imposing a unit root process on real GDP

Dependent Variable: D(GDP)
Method: Least Squares
Date: 09/13/07 Time: 17:24
Sample: 1972:1 2007:4
Included observations: 144

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(GDP(-1))	0.837903	0.103018	8.13602	0.0000
D(GDP(-2))	0.068511	0.103018	0.665041	0.5071
D(GDP(-3))	-0.099994	0.102831	-0.972413	0.3325
D(GDP(-4))	-0.297399	0.102984	-2.887813	0.0045
D(GDP(-5))	0.371345	0.076536	4.783654	0.0000
R-squared	0.412071	Mean dependent var	1.219947	
Adjusted R-squared	0.395152	D. of dependent var	1.13932	
S.E. of regression	0.904436	Akaike info criterion	2.671094	
Sum squared resid	113.7026	Schwarz criterion	2.774213	
Log likelihood	-187.3188	Durbin-Watson stat	2.066021	

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Imposing a unit root process for an intercept on real GDP

Dependent Variable: D(GDP)
Method: Least Squares
Date: 09/13/07 Time: 17:25
Sample: 1972:1 2007:4
Included observations: 144

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(GDP(-1))	0.678637	0.083252	8.151586	0.0000
D(GDP(-2))	0.040706	0.085492	0.475111	0.6379
D(GDP(-3))	-0.108298	0.097067	-1.115700	0.2665
D(GDP(-4))	-0.324436	0.097400	-3.330967	0.0011
D(GDP(-5))	0.212335	0.083384	2.546480	0.0120
C	0.611019	0.143777	4.249776	0.0000

R-squared	0.460110	Mean dependent var	1.219947
Adjusted R-squared	0.461274	S.E. of dependent var	1.162132
S.E. of regression	0.853569	Akaike info criterion	2.561992
Sum squared resid	100.5440	Schwarz criterion	2.685734
Log likelihood	-178.4634	F-statistic	25.48820
Durbin-Watson stat	1.986059	Prob(F-statistic)	0.000000

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