```
Step 1: testing for a unit root in AGILENTClose

Augmented Dickey-Fuller test for AGILENTClose
including 5 lags of (1-L)AGILENTClose
sample size 840
unit-root null hypothesis: a = 1

  test with constant
  model: (1-L)y = b0 + (a-1)*y(-1) + ... + e
  estimated value of (a - 1): -0.00204107
  test statistic: tau_c(1) = -0.621046
  asymptotic p-value 0.8637
  1st-order autocorrelation coeff. for e: 0.001
  lagged differences: F(5, 833) = 1.788 [0.1127]

Augmented Dickey-Fuller regression
OLS, using observations 2006-01-11:2009-05-13 (T = 840)
Dependent variable: d_AGILENTClose

                     coefficient   std. error   t-ratio    p-value
  ----------------------------------------------------------------
  const               0.0431703    0.106189      0.4065    0.6844
  AGILENTClose_1     -0.00204107   0.00328650   -0.6210    0.8637
  d_AGILENTClose_1   -0.0630817    0.0347568    -1.815     0.0699  *
  d_AGILENTClose_2   -0.0579711    0.0348263    -1.665     0.0964  *
  d_AGILENTClose_3    0.0518273    0.0348491     1.487     0.1373
  d_AGILENTClose_4   -0.00189897   0.0348053    -0.05456   0.9565
  d_AGILENTClose_5    0.0243237    0.0347351     0.7003    0.4840

  AIC: 1679.64   BIC: 1712.77   HQC: 1692.34

Step 2: testing for a unit root in ANALOGClose

Augmented Dickey-Fuller test for ANALOGClose
including 5 lags of (1-L)ANALOGClose
sample size 840
unit-root null hypothesis: a = 1

  test with constant
  model: (1-L)y = b0 + (a-1)*y(-1) + ... + e
  estimated value of (a - 1): -0.00420644
  test statistic: tau_c(1) = -1.07482
  asymptotic p-value 0.728
  1st-order autocorrelation coeff. for e: -0.000
  lagged differences: F(5, 833) = 3.081 [0.0092]

Augmented Dickey-Fuller regression
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```
OLS, using observations 2006-01-11:2009-05-13 (T = 840)
Dependent variable: d_ANALOGClose

                    coefficient   std. error   t-ratio    p-value
  ---------------------------------------------------------------
  const              0.101829     0.117459      0.8669    0.3862
  ANALOGClose_1     -0.00420644   0.00391363   -1.075     0.7280
  d_ANALOGClose_1   -0.0973218    0.0347158    -2.803     0.0052  ***
  d_ANALOGClose_2   -0.0929501    0.0348619    -2.666     0.0078  ***
  d_ANALOGClose_3    0.0187883    0.0350023     0.5368    0.5916
  d_ANALOGClose_4   -0.00124241   0.0348181    -0.03568   0.9715
  d_ANALOGClose_5   -0.0243309    0.0346853    -0.7015    0.4832

  AIC: 1590.42   BIC: 1623.55   HQC: 1603.12

Step 3: cointegrating regression

Cointegrating regression -
OLS, using observations 2006-01-03:2009-05-13 (T = 846)
Dependent variable: AGILENTClose

                coefficient   std. error   t-ratio    p-value
  -----------------------------------------------------------
  const          -1.56010     0.584379     -2.670     0.0077    ***
  ANALOGClose     1.12144     0.0194831    57.56      1.88e-294 ***

Mean dependent var   31.50057   S.D. dependent var   6.947032
Sum squared resid    8279.531   S.E. of regression   3.132071
R-squared            0.796975   Adjusted R-squared   0.796734
Log-likelihood      -2165.294   Akaike criterion     4334.589
Schwarz criterion    4344.070   Hannan-Quinn         4338.221
rho                  0.975583   Durbin-Watson        0.048859

Step 4: testing for a unit root in uhat

Augmented Dickey-Fuller test for uhat
including 5 lags of (1-L)uhat
sample size 840
unit-root null hypothesis: a = 1

  test without constant
  model: (1-L)y = (a-1)*y(-1) + ... + e
  estimated value of (a - 1): -0.0268004
  test statistic: tau_c(2) = -3.42147
  asymptotic p-value 0.04007
  1st-order autocorrelation coeff. for e: -0.001
  lagged differences: F(5, 834) = 2.558 [0.0262]
```

Augmented Dickey-Fuller regression
OLS, using observations 2006-01-11:2009-05-13 (T = 840)
Dependent variable: d_uhat

| | coefficient | std. error | t-ratio | p-value | |
|---|---|---|---|---|---|
| uhat_1 | -0.0268004 | 0.00783302 | -3.421 | 0.0401 | ** |
| d_uhat_1 | -0.0231756 | 0.0344504 | -0.6727 | 0.5013 | |
| d_uhat_2 | 0.0662387 | 0.0344514 | 1.923 | 0.0549 | * |
| d_uhat_3 | 0.0808020 | 0.0344856 | 2.343 | 0.0194 | ** |
| d_uhat_4 | 0.0302309 | 0.0346916 | 0.8714 | 0.3838 | |
| d_uhat_5 | -0.0630172 | 0.0346980 | -1.816 | 0.0697 | * |

AIC: 1756.97   BIC: 1785.37   HQC: 1767.86

There is evidence for a cointegrating relationship if:
(a) The unit-root hypothesis is not rejected for the individual variables, and
(b) the unit-root hypothesis is rejected for the residuals (uhat) from the cointegrating regression.