Example 4-11

September 12, 2020

comparing the two different test coefficients for

```
rho | rho | | rho | | rho | 0.3942212 | 0.4246933
```

cross-sectional correlation

cbind("rho" = pcdtest(diff(log(php\$price)), test = "rho")\$statistic,

"|rho|" = pcdtest(diff(log(php\$price)), test = "absrho")\$statistic)

	New E	Midea	South	Great	Plain	South	Rocky	Far W
New Engl	0.80	NA	NA	NA	NA	NA	NA	NA
Mideast	0.68	0.66	NA	NA	NA	NA	NA	NA
Southeast	0.40	0.35	0.81	NA	NA	NA	NA	NA
Great Lks	0.27	0.20	0.62	0.61	NA	NA	NA	NA
Plains	0.40	0.32	0.57	0.53	0.52	NA	NA	NA
Southwest	0.07	-0.05	0.28	0.39	0.35	0.52	NA	NA
Rocky Mnt	-0.03	-0.11	0.52	0.53	0.40	0.57	0.70	NA
Far West	0.13	0.17	0.52	0.42	0.29	0.31	0.46	0.57

Pesaran CD test for cross-sectional dependence in panels

```
data: diff(log(price)) \sim diff(lag(log(price))) + diff(lag(log(price), 2))
z = 59.009, p-value < 2.2e-16
alternative hypothesis: cross-sectional dependence
```