

```
name: <unnamed>
        log: C:\Users\Spandan\Desktop\IETF\PPP Project\Data\PPPandCPI.smcl
  log type: smcl opened on: 25 Aug 2023, 18:27:14
1 . import excel "C:\Users\Spandan\Desktop\IETF\PPP Project\Data\Data.xlsx", sheet("Shee
 > t2") firstrow clear
2 . tsset Year
         time variable: Year, 1961 to 2022 delta: 1 unit
3.
4 . foreach var in GermanyCPI UnitedKingdomCPI IndiaCPI JapanCPI ThailandCPI Switzerland
 > CPI{
  2. *dis "DFullerTEST for `var'",
5 . *dfuller `var'
6 . gen rel USD`var' = (D.UnitedStatesCPI - D.`var')/(1 + D.`var')
   3. }
  (1 missing value generated)
  (1 missing value generated)
8 . /*foreach var in GermanyEX UnitedKingdomEX IndiaEX JapanEX UnitedStatesEX{
 > gen chgUSD`var' = (1/`var')
 > gen USD`var' = D.chgUSD`var'
 > } */
> reg IndiaEX rel USDIndiaCPI
 > reg JapanEX rel_USDJapanCPI
 > reg SwitzerlandEX rel_USDSwitzerlandCPI
> reg ThailandEX rel_USDThailandCPI*/
11.
12. tabstat rel_* *EX, s(me sd sk ku)
    stats | rel~yCPI rel~mCPI rel~aCPI rel~nCPI r~Thai~I r~Swit~I German~X Unit
 mean .0004093
                       .000873 .0033633 .0020672 .0027513 .0010532 .0321458 -.010
 > 2726 -.0419916 .0210699
       sd .0148661 .0224593
                                  .058177 .0228108
                                                     .037442 .0153686 .1433497 .075
 > 3807 .064276 .100899
skewness | -.1006689 -.022292 1.578956 1.560088 2.833571 -1.03403 3.435763 -.224
 > 9798 - 857657 .9790055
kurtosis | 4.458031 11.04975 9.261787 9.95379 17.34092 6.050894 20.78763 2.61
 > 8435 4,461581 5.727771
```

stats	Switze~X	Thaila~X
mean	.0291153	006432
sd	.0975281	.0557006
skewness	1.272362	-1.83304
kurtosis	5.485073	8.584359

13. 13.
14. foreach var in Germany UnitedKingdom India Japan Switzerland Thailand{
2. reg `var'EX rel_USD`var'CPI
3. tsline `var'EX rel_USD`var'CPI
4. graph export `var'.png , as(png) replace
5. }

Source	SS		df	.104628249		Number of obs F(1, 59) Prob > F R-squared Adj R-squared Root MSE		= 61			
Model .1046282 Residual 1.148784			1 59					= 5.37 = 0.0239 = 0.0835 = 0.0679 = .13954			
Total	1.25341244		60								
Germar	nyEX	Coef.	Std.	Err.	t	P> t	[9	5% Con	f. Interv	al]	
rel_USDGermany	CPI cons	2.809008 .0308457			2.32 1.73			342533 004918			
(file Germany.	png v	written in E	PNG form	at)							
Source		SS	df		MS	Number of obs F(1, 59) Prob > F R-squared Adj R-squared Root MSE		=	61 0.20		
Model Residual		01153064 45356797	1 59		.53064 853505			= =	0.6588 0.0033 -0.0136		
Total	. 34	46509861	60	.0057	75164			=	.07651		
United	lKing	domEX	Coef.	Std.	Err.	t	P> t	[9	5% Conf.	Interv	
rel_USDUnitedKingdomCPI > 187 > 051		omCPI .1	.1951886 0106114		7803	0.44 0.659				1.075	
		_cons 0			.0098034		0.283			.0090	
 (file UnitedKi	ngdor	m.png writte	en in PN	G form	nat)						
Source		SS	df		MS	Number of obs F(1, 59) Prob > F R-squared		=	61		
Model Residual		00116883 49054847	1 59		.16883 221269			= = =	0.28 0.6007 0.0047		
Total	. 2!	50223677	60	.0041	.70395	Adj R-s Root MS		=	-0.0122 .06497		
India	EX	Coef.	Std. E	rr.	t	P> t	[95%	Conf.	Interval]	
rel_USDIndiaCF	- 1	.0758663 0429351	.14417		0.53 -5.15	0.601 0.000	2120 0590		.364363		
(file India.pr	ng wr	itten in PNG	format)						_	
Source		SS	df		MS	Number		=	61 2.33		
Model Residual		23571175 96994123	1 59		571175 .18544	F(1, 59) Prob > F R-squared Adj R-squared Root MSE		= = = =	0.1323 0.0380		
Total	. 62	20565297	60	.0103	342755			=	0.0217 .10059		