(R) 13.0 Copyright 1985-2013 StataCorp LP StataCorp Statistics/Data Analysis 4905 Lakeway Drive College Station, Texas 77845 USA MP - Parallel Edition 800-STATA-PC http://www.stata.com 979-696-4600 stata@stata.com 979-696-4601 (fax) Notes: (/v# option or -set maxvar-) 5000 maximum variables . *(8 variables, 47 observations pasted into data editor) . drop tariffrates . rename (bop1000us exchangerateinr inflationgdpdeflatorannual inflationconsumerpricesannual gdpcurrentus botcurrentus) (bop exr > igd icp gdp bot) . gen time= $[1]+_n-1$. tsset time, yearly time variable: time, 1 to 47 delta: 1 year . varsoc bop Selection-order criteria Sample: 5 - 47 Number of obs = |lag| LL LR df p FPE AIC HQIC SBIC |----+-----2 | -1075.23 .00452 1 0.946 3.5e+20 50.1504 50.1957 50.2733 3 | -1073.4 3.6604 1 0.056 3.4e+20 50.1118 4 | -1073.2 .41077 1 0.522 3.5e+20 50.1488 50.1722 50.2757 50.2243 50.3536 Endogenous: bop Exogenous: _cons . dfuller bop, trend regress lags(1) Augmented Dickey-Fuller test for unit root Number of obs = 45 ----- Interpolated Dickey-Fuller -----Test 1% Critical 5% Critical 10% Critical Value Value Value Statistic Z(t) -3.689 -4.196 -3.520 -3.192 ______

| Coef. Std. Err. t P>|t| [95% Conf. Interval]

MacKinnon approximate p-value for Z(t) = 0.0231

D.bop

| + | | | | | | |
|--------|-----------|----------|-------|-------|-----------|-----------|
| bop | | | | | | |
| L1. | 6051458 | .1640248 | -3.69 | 0.001 | 9364007 | 273891 |
| LD. | . 2155935 | .1956161 | 1.10 | 0.277 | 1794612 | .6106481 |
| _trend | -5.90e+08 | 2.56e+08 | -2.31 | 0.026 | -1.11e+09 | -7.31e+07 |
| _cons | 5.52e+09 | 5.62e+09 | 0.98 | 0.332 | -5.83e+09 | 1.69e+10 |

. varsoc exr

Selection-order criteria Sample: 5 - 47

| Samp | le: 5 - 47 | , | | | | Number of | obs = | 43 |
|------|---------------|---------|----|-------|----------|-----------|----------|----------|
| lag | LL + | LR | df | р | FPE | AIC | HQIC | SBIC |
| 0 | -190.448 | | | | 431.248 | 8.90455 | 8.91966 | 8.94551 |
| 1 | -95.1658 | 190.56* | 1 | 0.000 | 5.37376* | 4.51934* | 4.54955* | 4.60125* |
| 2 | -94.6755 | .9806 | 1 | 0.322 | 5.50356 | 4.54305 | 4.58836 | 4.66592 |
| 3 | -94.6564 | .03807 | 1 | 0.845 | 5.76228 | 4.58867 | 4.64909 | 4.7525 |
| 4 | -93.5218 | 2.2693 | 1 | 0.132 | 5.72927 | 4.58241 | 4.65793 | 4.7872 |

Endogenous: exr Exogenous: _cons

. dfuller exr, trend regress lags(1)

Augmented Dickey-Fuller test for unit root Number of obs =

45

| | | Interpolated Dickey-Fuller | | | | | | |
|------|-----------|----------------------------|-------------|--------------|--|--|--|--|
| | Test | 1% Critical | 5% Critical | 10% Critical | | | | |
| | Statistic | Value | Value | Value | | | | |
| Z(t) | -2.323 | -4.196 | -3.520 | -3.192 | | | | |

MacKinnon approximate p-value for Z(t) = 0.4212

| D.exr | | Coef. | Std. Err. | t | P> t | [95% Conf. | Interval] |
|--------------|---|---|--|-------------------------------|----------------------------------|---|--|
| - | exr L1. LD. rend cons | 1680053 .2187626 .2801368 .3600526 | .0723211 .1504742 .1124326 .6750977 | -2.32 1.45 2.49 0.53 | 0.025 0.154 0.017 0.597 | 3140608 0851263 .0530745 -1.003335 | 0219499 .5226515 .5071991 1.72344 |
| | · - | | | | | | |

- . gen d1exr=D1.exr (1 missing value generated)
- . varsoc d1exr

Selection-order criteria

| Sampl | .e: 6 - 47 | | | | | Number of | obs = | 42 |
|-------|----------------------------------|---------|---|-------|---------------------|-----------|---------------------|------|
| , , , | LL | | | р | FPE | AIC | HQIC | SBIC |
| 0 | -93.2835 -92.8162 -92.8004 | . 93445 | 1 | 0.334 | 5.21647* 5.35085 | 4.48969* | 4.50485* 4.54539 | ı |

3 | -91.7114 2.1779 1 0.140 5.5867 4.55769 4.61835 4.72318 4 | -91.6163 .19021 1 0.663 5.83594 4.60078 4.6766 4.80764

Endogenous: d1exr Exogenous: _cons

. dfuller d1exr, trend regress lags(0)

Dickey-Fuller test for unit root

Number of obs =

45

Test 1% Critical 5% Critical 10% Critical Statistic Value Value Value

Z(t) -5.507 -4.196 -3.520 -3.192

MacKinnon approximate p-value for Z(t) = 0.0000

| D.d1exr | Std. Err. | | P> t | - | Interval] |
|---------------------------------|--------------------------------------|-----------------------|-------------------------|---------------------------------|---------------------------------|
| d1exr L1. _trend _cons | .1548189 .0261556 .6785194 | -5.51 0.97 0.95 | 0.000 0.337 0.348 | -1.165083 0273555 7258799 | 5402089 .0782129 2.012735 |

- . gen d1igd=D1.igd
 (1 missing value generated)
- . twoway (line gdp time)
- . gen d1gdp=D1.gdp
 (1 missing value generated)
- . varsoc d1gdp

Selection-order criteria

| | | Le: 6 - 47 | | | | | Number of | | = 42 |
|-----|------------------------|--|----------------------------|-------------|-------------------------|--|---|--|--|
| ij. | lag | LL | LR | df | p | FPE | AIC | HQIC | SBIC |
| | 0 1 2 3 | -1130.07 -1130.07 -1128.81 -1128.62 -1124.15 | .00013 2.5291 .36868 | 1 1 1 | 0.991 0.112 0.544 | 1.4e+22 1.5e+22 1.5e+22 1.6e+22 1.3e+22* | 53.8606 53.9082 53.8956 53.9344 53.769* | 53.8757 53.9385 53.9411 53.9951 53.8448* | 53.9019* 53.9909 54.0197 54.0999 53.9758 |

Endogenous: d1gdp Exogenous: _cons

. varsoc d1gdp, maxlag(3)

Selection-order criteria Sample: 5 - 47

| • | | | | | | | | | · + |
|-----|----------|----|----|---|-----|----------|------|------|--------|
| lag | LL | LR | df | р | FPE | AIC | HQIC | SBIC | İ |
| ! : | -1156.59 | | | | | 53.8412* | | | - 1 |

Number of obs

=

43

| 2 -115! 3 -115! | 6.59 .00205 5.25 2.6624 5.05 .40867 | 1 0.103 1 0.523 | 1.5e+22 1.5e+22 | 53.8723 53.9093 | 3 53.9697 | 53.9952 54.0731 |
|---|---|--|--|---|--------------------------------------|--|
| Endogenous Exogenous | : d1gdp | | | | | |
| . dfuller d1g | dp, trend regr | ess lags(4) | | | | |
| Augmented Dic | key-Fuller tes | st for unit ı | root | Numbe | er of obs = | = 41 |
| | Test Statistic | 1% Crit: | ical | 5% Cri | Dickey-Fulle tical 10 lue | 9% Critical |
| Z(t) | -2.860 | -4 | . 233 | -; | 3.536 | -3.202 |
| MacKinnon app | roximate p-val | | | | | |
| | | | | | | |
| D.d1gdp | | Stu. Err. | L | P> L | 95% COIII. | . Intervatj |
| LD. L2D. L3D. L4Dtrend _cons dfuller d1gd Dickey-Fuller | -1.487899 .1583406 .1109199 2051646 .070683 6.78e+09 -6.68e+10 | .4709913 .4250704 .3242568 .2729522 2.60e+09 4.45e+10 | 0.34 0.26 -0.63 0.26 2.61 -1.50 | 0.796 0.531 0.797 0.014 0.142 Number | 4840227 1.49e+09 -1.57e+11 | .9747669 .4538046 .6253886 1.21e+10 2.36e+10 |
| MacKinnon app | roximate p-val | Lue for Z(t) | = 0.0000 |) | | |
| D.d1gdp | Coef. | Std. Err. | t | P> t | [95% Conf | . Interval] |
| d1gdp L1. _trend _cons | | .1765263 1.27e+09 3.02e+10 | -7.42 4.20 -1.22 | 0.000 0.000 0.229 | -1.666183 2.78e+09 -9.78e+10 | 9536942 7.90e+09 2.40e+10 |
| . drop d1gdp . gen d1lngdp: unknown funct: | =D1.(ln(gdp)) | | | | | |

r(133);

- . gen lngdp=ln(gdp)
- . gen d1lngdp=D1.lngdp
 (1 missing value generated)
- . gen d1bot=D1.bot
 (1 missing value generated)
- . varsoc d1lngdp

Selection-order criteria Sample: 6 - 47

| _Samp | le: 6 - 47 | | | | | Number of | obs | = 42 |
|-------|------------|--------|----|-------|----------|-----------|-----------|-----------|
| lag | LL | LR | df | р | FPE | AIC | HQIC | SBIC |
| 0 | 47.0936 | | | | .006521* | -2.19493* | -2.17977* | -2.15356* |
| 1 1 | 47.0938 | .00038 | 1 | 0.984 | .006839 | -2.14732 | -2.11699 | -2.06458 |
| 2 | 47.7922 | 1.397 | 1 | 0.237 | .006939 | -2.13296 | -2.08747 | -2.00884 |
| 3 | 47.7935 | .00253 | 1 | 0.960 | .007279 | -2.0854 | -2.02475 | -1.91991 |
| 4 | 47.8662 | .14549 | 1 | 0.703 | .007612 | -2.04125 | -1.96543 | -1.83438 |

Endogenous: d1lngdp Exogenous: _cons

. dfuller d1lngdp, trend regress lags(0)

Dickey-Fuller test for unit root

Number of obs = 45

| | | Interpolated Dickey-Fuller | | | | | | | |
|------|-----------|----------------------------|-------------|--------------|--|--|--|--|--|
| | Test | 1% Critical | 5% Critical | 10% Critical | | | | | |
| | Statistic | Value | Value | Value | | | | | |
| Z(t) | -6.307 | -4.196 | -3.520 | -3.192 | | | | | |

MacKinnon approximate p-value for Z(t) = 0.0000

| D.d1lngdp | Coef. | Std. Err. | t | P> t | [95% Conf. | Interval] |
|-----------------------------------|--|----------------------------------|-----------------------|-------------------------|---------------------------------|---------------------------------|
| d1lngdp L1. _trend _cons | 9893522 .0000522 .0742544 | .1568536 .0009262 .0272534 | -6.31 0.06 2.72 | 0.000 0.955 0.009 | -1.305896 001817 .0192549 | 6728088 .0019213 .1292539 |

. varsoc bop d1exr d1igd icp d1lngdp d1bot

Selection-order criteria Sample: 6 - 47

| Sampl | e: 6 - 47 | | | | | Number of | obs = | 42 |
|-----------|--|----------------------------|----------------|-------------------------|--------------------------------|--|--|---|
| lag | | | df | 1- | FPE | AIC | HQIC | SBIC |
| 0 1 2 | -2329.24 -2242.72 -2213.9 -2179.6 -2124.53 | 173.04 57.637 68.597 | 36 36 36 | 0.000 0.012 0.001 | 7.9e+40 7.3e+39* 1.1e+40 | 111.202 108.796 109.138 109.219 108.311* | 111.293 109.433* 110.321 110.948 110.586 | 111.45 110.534* 112.365 113.936 114.517 |

Endogenous: bop d1exr d1igd icp d1lngdp d1bot

Exogenous: _cons

. var bop d1exr d1igd icp d1lngdp d1bot, lags(1)

Vector autoregression

| Sample: 3 - 4 Log likelihood FPE Det(Sigma_ml) | i = -2423.756 = 1.61e+40 | | | No. of AIC HQIC SBIC | obs | = 45 = 109.5892 = 110.2178 = 111.2754 |
|---|-----------------------------|--|--------|---|--------------------------------------|--|
| Equation | Parms | RMSE | R-sq | chi2 | P>chi2 | |
| bop d1exr d1igd icp d1lngdp d1bot | 7 7 7 | 1.77916 2.43956 2.90381 .070746 | 0.3042 | 39.18102 18.70058 25.5258 12.2265 15.46035 20.7293 | 0.0047 0.0003 0.0571 0.0170 | |
| | | Std. Err. | | | [95% Cont | f. Interval] |
| bop | | | | | | |
| bop L1. | .6079237 | .1272692 | 4.78 | 0.000 | .3584806 | .8573668 |
| d1exr L1. | 2.68e+08 | 2.00e+09 | 0.13 | 0.894 | -3.65e+09 | 4.19e+09 |
| d1igd L1. | -8.02e+08 | 8.53e+08 | -0.94 | 0.347 | -2.47e+09 | 8.71e+08 |
| icp L1. | -7.80e+08 | 6.88e+08 | -1.13 | 0.257 | -2.13e+09 | 5.69e+08 |
| d1lngdp L1. | -2.99e+10 | 5.18e+10 | -0.58 | 0.565 | -1.31e+11 | 7.18e+10 |
| d1bot L1. | . 172736 | .1583517 | 1.09 | 0.275 | 1376277 | . 4830996 |
| _cons | 1.85e+09 | 7.57e+09 | 0.24 | 0.806 | -1.30e+10 | 1.67e+10 |
| d1exr bop | -5.13e-11 | 1.28e-11 | -4.01 | 0.000 | -7.64e-11 | -2.63e-11 |
| d1exr L1. | 4993319 | . 20108 | -2.48 | 0.013 | 8934415 | 1052224 |
| d1igd L1. | 1793173 | . 0857628 | -2.09 | 0.037 | 3474092 | 0112254 |
| icp L1. | .1063413 | .0691565 | 1.54 | 0.124 | 029203 | .2418856 |
| d1lngdp | | | | | | |

| L1. | -19.57064 | 5.211028 | -3.76 | 0.000 | -29.78407 | -9.357217 |
|---------------------------|-----------|----------|-------|-------|-----------|-----------|
| d1bot L1. | -9.75e-12 | 1.59e-11 | -0.61 | 0.540 | -4.09e-11 | 2.14e-11 |
| _cons | 2.211243 | .7607796 | 2.91 | 0.004 | .7201424 | 3.702344 |
| d1igd bop L1. | 1.89e-11 | 1.75e-11 | 1.08 | 0.280 | -1.54e-11 | 5.33e-11 |
| d1exr L1. | 2254934 | .2757185 | -0.82 | 0.413 | 7658917 | .3149049 |
| d1igd L1. | 4461944 | .1175969 | -3.79 | 0.000 | 67668 | 2157088 |
| icp L1. | 3199446 | .0948266 | -3.37 | 0.001 | 5058014 | 1340879 |
| d1lngdp L1. | .8767432 | 7.1453 | 0.12 | 0.902 | -13.12779 | 14.88127 |
| d1bot L1. | 2.44e-11 | 2.18e-11 | 1.12 | 0.264 | -1.84e-11 | 6.72e-11 |
| _cons | 2.98647 | 1.043172 | 2.86 | 0.004 | .9418909 | 5.03105 |
| icp bop L1. | -3.18e-12 | 2.09e-11 | -0.15 | 0.879 | -4.41e-11 | 3.77e-11 |
| d1exr L1. | 0516961 | .3281879 | -0.16 | 0.875 | 6949326 | .5915404 |
| d1igd L1. | . 2399005 | .1399756 | 1.71 | 0.087 | 0344467 | . 5142477 |
| icp L1. | . 3603688 | .1128722 | 3.19 | 0.001 | .1391434 | . 5815942 |
| d1lngdp L1. | -3.143881 | 8.505056 | -0.37 | 0.712 | -19.81348 | 13.52572 |
| d1bot L1. | -2.27e-11 | 2.60e-11 | -0.87 | 0.383 | -7.36e-11 | 2.82e-11 |
| _cons | 5.152161 | 1.241688 | 4.15 | 0.000 | 2.718497 | 7.585826 |
| d1lngdp bop L1. | 1.02e-12 | 5.09e-13 | 2.01 | 0.044 | 2.60e-14 | 2.02e-12 |
| d1exr L1. | .0185697 | .0079956 | 2.32 | 0.020 | .0028986 | .0342409 |
| d1igd L1. | .0101921 | .0034102 | 2.99 | 0.003 | . 0035082 | .016876 |

| icp L1. | 0045038 | .0027499 | -1.64 | 0.101 | 0098936 | .0008859 |
|----------------|----------------------|-----------|-------|-------|-----------|-----------|
| d1lngdp L1. | .432267 | . 2072086 | 2.09 | 0.037 | .0261456 | . 8383883 |
| d1bot L1. | 2.65e-14 | 6.33e-13 | 0.04 | 0.967 | -1.21e-12 | 1.27e-12 |
| _cons | .0614659 | .0302512 | 2.03 | 0.042 | .0021745 | .1207572 |
| d1bot | | | | | | |
| bop L1. | 287338 | .1282364 | -2.24 | 0.025 | 5386768 | 0359993 |
| d1exr L1. | 2.28e+09 | 2.02e+09 | 1.13 | 0.258 | -1.67e+09 | 6.23e+09 |
| d1igd L1. | -1.59e+09 | 8.60e+08 | -1.85 | 0.065 | -3.27e+09 | 9.73e+07 |
| icp L1. | -1.04e+09 | 6.93e+08 | -1.51 | 0.132 | -2.40e+09 | 3.15e+08 |
| d1lngdp L1. | -2.29e+10 | 5.22e+10 | -0.44 | 0.661 | -1.25e+11 | 7.95e+10 |
| d1bot L1. | 1281556 | .1595552 | -0.80 | 0.422 | 440878 | .1845668 |
| _cons | 1.06e+09 | 7.63e+09 | 0.14 | 0.889 | -1.39e+10 | 1.60e+10 |

. var bop d1exr d1igd d1lngdp d1bot, lags(1)

Vector autoregression

| Sample: 3 - 4 Log likelihood FPE Det(Sigma_ml) | = -2330.659 = 2.55e+39 | | | No. of AIC HQIC SBIC | | 104.9182 105.3672 |
|---|---------------------------|---|--|-------------------------------|--|----------------------|
| Equation | Parms | RMSE | R-sq | chi2 | P>chi2 | |
| bop d1exr d1igd d1lngdp d1bot | 6 6 6 6 6 | 1.8e+10 1.80175 2.69552 .071884 1.8e+10 | 0.4502 0.4207 0.2383 0.2628 0.2809 | | 0.0000 0.0084 0.0460 0.0340 0.0035 | |
| | Coef. | Std. Err. | Z | P> z | [95% Conf. | Interval] |
| bop bop L1. dlexr | . 6093953 | .1290667 | 4.72 | 0.000 | .3564293 | .8623613 |

| L1. | -1.91e+08 | 1.99e+09 | -0.10 | 0.923 | -4.09e+09 | 3.70e+09 |
|-----------------------|-------------------------|-----------|-------|-------|-----------|-----------|
| d1igd L1. | -6.27e+08 | 8.51e+08 | -0.74 | 0.461 | -2.30e+09 | 1.04e+09 |
| d1lngdp L1. | -3.50e+10 | 5.24e+10 | -0.67 | 0.504 | -1.38e+11 | 6.76e+10 |
| d1bot L1. | 1 .1770632 | .1605498 | 1.10 | 0.270 | 1376087 | . 4917351 |
| _cons | -2.77e+09 | 6.47e+09 | -0.43 | 0.668 | -1.54e+10 | 9.90e+09 |
| d1exr | ! | | | | | |
| bop L1. | -5.15e-11 | 1.31e-11 | -3.93 | 0.000 | -7.73e-11 | -2.58e-11 |
| d1exr L1. | 436733 | . 2020231 | -2.16 | 0.031 | 8326909 | 040775 |
| d1igd L1. | 2031048 | .0865439 | -2.35 | 0.019 | 3727276 | 0334819 |
| d1lngdp L1. | -18.86631 | 5.325487 | -3.54 | 0.000 | -29.30407 | -8.428544 |
| d1bot L1. | -1.03e-11 | 1.63e-11 | -0.63 | 0.526 | -4.23e-11 | 2.17e-11 |
| _cons | 2.841782 | .6574315 | 4.32 | 0.000 | 1.55324 | 4.130324 |
| d1igd | | | | | | |
| bop L1. | 1.95e-11 | 1.96e-11 | 1.00 | 0.320 | -1.89e-11 | 5.80e-11 |
| d1exr L1. | 4138323 | .3022379 | -1.37 | 0.171 | -1.006208 | .1785431 |
| d1igd L1. | 3746262 | .1294745 | -2.89 | 0.004 | 6283916 | 1208607 |
| d1lngdp L1. | -1.242373 | 7.967229 | -0.16 | 0.876 | -16.85785 | 14.37311 |
| d1bot L1. | 2 620 11 | 2.44e-11 | 1 07 | 0.284 | 2 170 11 | 7.40e-11 |
| | İ | | | | | |
| _cons | 1.089392 + | .9835546 | 1.11 | 0.268 | 8383392 | 3.017124 |
| d1lngdp bop L1. | 1.03e-12 | 5.24e-13 | 1.97 | 0.049 | 5.32e-15 | 2.06e-12 |
| d1exr L1. | .0159185 | .0080601 | 1.97 | 0.048 | .0001211 | .0317159 |
| d1igd L1. | .0111996 | .0034528 | 3.24 | 0.001 | .0044322 | .017967 |

| d1lngdp L1. | .4024363 | . 2124694 | 1.89 | 0.058 | 0139962 | .8188688 |
|----------------|----------------------|-----------|-------|-------|-----------|----------|
| d1bot L1. | 5.15e-14 | 6.51e-13 | 0.08 | 0.937 | -1.22e-12 | 1.33e-12 |
| _cons | .0347609 | .0262294 | 1.33 | 0.185 | 0166477 | .0861694 |
| d1bot | | | | | | |
| bop L1. | 2853678 | .131422 | -2.17 | 0.030 | 5429502 | 0277854 |
| d1exr L1. | 1.67e+09 | 2.02e+09 | 0.82 | 0.410 | -2.30e+09 | 5.63e+09 |
| d1igd L1. | -1.35e+09 | 8.67e+08 | -1.56 | 0.118 | -3.05e+09 | 3.45e+08 |
| d1lngdp L1. | -2.98e+10 | 5.33e+10 | -0.56 | 0.576 | -1.34e+11 | 7.47e+10 |
| d1bot L1. | 1223622 | .1634797 | -0.75 | 0.454 | 4427766 | .1980521 |
| _cons | -5.13e+09 | 6.58e+09 | -0.78 | 0.436 | -1.80e+10 | 7.78e+09 |

. varlmar

Lagrange-multiplier test

| lag | | chi2 | df | Prob > chi2 | • |
|-----|--|--------------------|----------|--------------------|-------------------|
| 1 1 | | 25.7542 18.2309 | 25 25 | 0.42081 0.83243 | - I |

HO: no autocorrelation at lag order

. varstable

Eigenvalue stability condition

| Eigenvalue Modulus | + | + |
|---|------------------------------------|----------------------|
| | Eigenvalue | Modulus |
| 2910174 + .23936471 .376811 291017423936471 .376811 .3701447 .370145 .1450002 + .22504541 .267713 .145000222504541 .267713 | .3701447 .1450002 + .2250454i | .370145 .267713 |

All the eigenvalues lie inside the unit circle. VAR satisfies stability condition.

. vargranger

Granger causality Wald tests

| + | | | + |
|----------|----------|------|----------------|
| Equation | Excluded | chi2 | df Prob > chi2 |
| | | | |

| bop bop bop bop bop | d1exr d1igd d1lngdp d1bot ALL | .00929 .54305 .44716 1.2163 3.7478 | 1 1 1 1 4 | 0.923 0.461 0.504 0.270 0.441 |
|---|---|--|-----------------------|---|
| d1exr d1exr d1exr d1exr d1exr d1exr | bop d1igd d1lngdp d1bot ALL | 5.5077 12.55 | 0 1 1 0 2 | 0.019 0.000 0.001 |
| d1igd d1igd d1igd d1igd d1igd | bop d1exr d1lngdp d1bot ALL | 1.8748 .02432 | 0 1 1 0 2 | 0.171 0.876 . 0.169 |
| d1lngdp d1lngdp d1lngdp d1lngdp d1lngdp | bop d1exr d1igd d1bot ALL | 3.9006 10.521 11.942 | 0 1 1 0 2 | 0.048 0.001 0.003 |
| d1bot d1bot d1bot d1bot d1bot | bop d1exr d1igd d1lngdp ALL | 4.7149 .67787 2.4412 .31307 17.081 | 1 1 1 1 1 | 0.030 0.410 0.118 0.576 0.002 |

.