



```

> name: RERTOT_JIMF
> log: C:\Users\jamel\Dropbox\Latex\PROJECTS\21-12-reer-tot-res\Estimation\Archive\RERTOT_JIMF.smcl
> log type: smcl
> opened on: 12 Jul 2025, 16:40:50

.
. use datafintransformed-22-11-17, clear

.
. **# Variable definition
. // Some explanations about the variable definition
.
. /*
> generate lreer = log(reer)
> generate lto = log(1+((exppercen+imppercen)/2))
> generate ltot = log(1*(expvalunit/impvalunit))
> generate lres = log(1+100*(res/gdp))
> generate lgdppk = log(gdppk)
> generate lgovexp = log(govexp)
>
> gen ner2010 = ner if year==2010
> egen ner2010basis = mean(ner2010), by(cn)
> gen nerbasis = (ner/ner2010basis)*100
> gen lnerbasis = log(nerbasis)
>
> gen reer2010 = reer if year==2010
> egen reer2010basis = mean(reer2010), by(cn)
> gen reerbasis = (reer/reer2010basis)*100
> capture generate lreerbasis = log(reerbasis)
>
> // Cross-sectional averages for main variables
>
> egen mean_pop = mean(pop), by(cn)
> egen mean_ltot = mean(ltot), by(year)
> egen mean_lres = mean(lres), by(year)
> egen mean_lto = mean(lto), by(year)
> egen mean_lreer = mean(lreer), by(year)
> egen mean_lreerbasis = mean(lreerbasis), by(year)
> egen mean_lgdppk = mean(lgdppk), by(year)
> egen mean_ka_open = mean(ka_open), by(year)
>
> order gdppk lgdppk mean_lgdppk, first
>
> gen lgdppk_m = lgdppk/mean_lgdppk
>
> *First observation for lgdppk_m:
> *gdppk <=> (log(x)/9.1899)=0.9543
>
> gen lgdppk_m100 = log(100)*(lgdppk/mean_lgdppk)
>
> *First observation for lgdppk_m100:
> *gdppk <=> log(100)*(log(x)/9.1899)=4.3949
>
> generate lgdppk_us = lgdppk if cn==107
> sort year lgdppk_us
> order cn year lgdppk lgdppk_us
> *help carryforward
> bysort year: carryforward lgdppk_us, gen(lgdppk_usd)
> order cn year lgdppk lgdppk_us lgdppk_usd
> gen lgdppk_c = (lgdppk/lgdppk_usd)
> order cn year lreer lto ltot lres, first
>
> label variable lreer /**
> "Real effective exchange rate in Natural Log"
> label variable lreerbasis /**
> "Real effective exchange rate in Natural Log (2010=100)"
> label variable lto "Trade openness in Natural Log"
> label variable ltot "Terms-of-trade in Natural Log"
> label variable lres "International reserves in Natural Log"
>
> // Time and country dummies

```

```

>
> forvalue num=2001(1)2020 {
>           gen yr`num' = 0
>           replace yr`num' = 1 if year==`num'
> }
>
> forvalue cn=2001(1)2020 {
>           gen cny`num' = 0
>           replace cny`num' = 1 if cn==`num'
> }
>
> forvalue num=1(1)110 {
>           gen cny`num' = 0
>           replace cny`num' = 1 if cn==`num'
> }
>
> tabstat lgdppk lgovexp ka_open inf lnerbasis, ///
> statistics(count) by(cn) save
>
> egen count_lgovexp = count(lgovexp), by (cn)
> egen count_inf = count(inf), by (cn)
> egen count_lnerbasis = count(lnerbasis), by (cn)
> egen count_ka_open = count(ka_open), by (cn)
>
> */
.
. // Install package
. ssc install xtendothresdpd, replace
checking xtendothresdpd consistency and verifying not already installed...
all files already exist and are up to date.

. search xthenreg

. *Then, click on: net install st0573
. ssc install moremata, replace
checking moremata consistency and verifying not already installed...
all files already exist and are up to date.

. ssc install locproj, replace
checking locproj consistency and verifying not already installed...
all files already exist and are up to date.

. ssc install xtcdf, replace
checking xtcdf consistency and verifying not already installed...
all files already exist and are up to date.

. ssc install regife, replace
checking regife consistency and verifying not already installed...
all files already exist and are up to date.

.
. **# Table 1. Descriptive statistics.
.
. sum lreer lto ltot etot lres lgdppk_m100 lgovexp

```

Variable	Obs	Mean	Std. dev.	Min	Max
lreer	2,200	4.632866	.1832542	2.84686	5.567302
lto	2,200	3.650269	.4817038	2.377674	5.392096
ltot	2,200	-.014806	.371138	-2.11197	2.513272
etot	2,200	-.0283768	1.305032	-6.816984	9.551851
lres	2,200	2.522981	.8929707	.0925683	4.697033
lgdppk_m100	2,200	4.60517	.5413455	3.159225	5.774917
lgovexp	2,127	2.696445	.3713954	-.0494565	3.56532

```
. outreg2 using sum.tex, replace sum(log) ///
> keep(lreer lto ltot etot lres lgdppk_m100 lgovexp)
```

Variable	Obs	Mean	Std. dev.	Min	Max
cn	2,200	55.5	31.76017	1	110
year	2,200	2010.5	5.767592	2001	2020
lreer	2,200	4.632866	.1832542	2.84686	5.567302
lto	2,200	3.650269	.4817038	2.377674	5.392096
ltot	2,200	-.014806	.371138	-2.11197	2.513272
lres	2,200	2.522981	.8929707	.0925683	4.697033
lgdppk	2,200	9.459362	1.119343	6.532552	11.70063
lgdppk_us	20	10.93104	.0628528	10.82231	11.04501
lgdppk_usd	2,200	10.93104	.0612753	10.82231	11.04501
gdppk	2,200	21159.19	19650.25	687.1494	120647.8
mean_lgdppk	2,200	9.459363	.1405699	9.189973	9.653243
reer	2,200	104.5075	19.21356	17.23358	261.7271
exppercents	2,200	41.07986	27.72134	4.685804	228.9938
imppercents	2,200	43.94904	23.80346	9.482804	208.3329
expvalunit	2,200	371.0527	563.6597	29.07626	14708.27
impvalunit	2,200	334.1177	232.3083	35.73984	1679.372
res	2,200	6.61e+10	2.72e+11	1.77e+07	3.86e+12
gdp	2,200	5.59e+11	1.85e+12	4.87e+08	2.14e+13
govexp	2,127	15.75729	5.054189	.9517466	35.35077
cpi	2,154	106.0156	43.87587	7.347208	536.5427
inf	2,149	5.63844	10.83412	-10.06749	359.9366
ner	1,896	802.6203	2617.351	.139	23208.37
pop	2,200	5.68e+07	1.76e+08	441525	1.41e+09
broadmoney	1,759	60.12087	41.23677	2.857408	280.1829
IRR	2,082	6.786263	4.123157	1	15
p_equity_net	2,014	-.195533	2.890206	-37.2125	15.30837
fdi_net	2,014	-.2183382	.8891999	-5.363108	13.95155
debt_net	2,014	-.0136181	2.374589	-2.554898	28.33707
f_deriv_net	2,014	.0027711	.0310082	-.2152867	.6730003
p_debt	2,014	.1502667	1.878986	-1.116229	23.22265
other_inv_t	2,014	-.1735232	.6205212	-3.002472	7.096043
ifscode	2,200	518.6273	287.6596	111	968
fd	2,180	.3720599	.2407235	.0260242	.9674348
fia	2,180	.380705	.2764909	.0016173	1
fid	2,180	.3095738	.2736186	.0048961	1
fie	2,180	.5691865	.1197885	.1233056	.8430366
fi	2,180	.4444668	.2269273	.0496998	.9781906
fma	2,180	.2763004	.2797769	0	1
fmd	2,180	.2777948	.2921403	0	1
fme	2,180	.2944621	.3686118	0	1
fm	2,180	.2863221	.2746949	0	.9494287
ggdy	2,178	53.69801	36.26452	1.562	344.317
xtdebt	2,030	132.7618	464.0633	2.500823	6596.141
quarter	1,044	4	0	4	4
qdate	1,044	201	20.76246	167	235
sscb_res	1,044	.0086207	.1416328	-1	1
sscb_cons	1,044	.0038314	.0618094	0	1
sscb_oth	1,044	.0019157	.1072455	-1	2
sscb	1,044	.0143678	.1977449	-2	2
cap_req	1,042	.0134357	.1151864	0	1
concrat	1,036	.003861	.1389559	-1	1
ibex	864	.005787	.1127506	-1	1
ltv_cap	438	.0388128	.2546599	-1	1
rr_foreign	1,044	-.0076628	.2662525	-3	3
rr_local	1,044	-.0220307	.3254811	-3	4
cum_sscb_res	1,044	.1168582	.9672208	-3	5

cum_sscb_c~s	1,044	.0699234	.4694866	-1	6
cum_sscb_oth	1,044	.0603448	.6577208	-2	3
cum_sscb	1,044	.2471264	1.4075	-4	7
cum_cap_req	1,042	.7130518	.8978587	0	3
cum_concrat	1,036	.4305019	.9590636	-2	4
cum_ibex	864	.2141204	.6178006	-2	3
cum_ltv_cap	438	1.02968	1.760626	-3	8
cum_rr_for~n	1,044	.2614943	1.491302	-6	11
cum_rr_local	1,044	-.5804598	2.471359	-10	12
PruC	1,044	.0220307	.4043072	-1	1
cum_PruC	1,044	1.676245	4.611729	-12	24
PruC2	1,044	.0220307	.4043072	-1	1
cum_PruC2	1,044	1.672414	4.874451	-15	24
kaopen	2,049	.7011285	1.530525	-1.923948	2.321955
ka_open	2,049	.6182611	.3604709	0	1
rn	2,200	3.372727	2.053664	1	7
lgovexp	2,127	2.696445	.3713954	-.0494565	3.56532
ner2010	95	738.1167	2424.683	.2866066	18612.92
ner2010basis	1,900	738.1167	2412.523	.2866066	18612.92
nerbasis	1,875	119.3276	74.76092	22.80764	1810.417
lnerbasis	1,875	4.708421	.3322778	3.127096	7.501312
reer2010	110	106.4804	10.13405	79.67883	138.4485
reer2010ba~s	2,200	106.4804	10.09018	79.67883	138.4485
reerbasis	2,200	98.33022	16.09791	16.63531	238.6128
lreerbasis	2,200	4.574536	.1708179	2.811527	5.474842
mean_pop	2,200	5.68e+07	1.76e+08	523287.6	1.34e+09
mean_ltot	2,200	-.014806	.0217527	-.0691785	.0171375
mean_lres	2,200	2.522981	.0804169	2.3659	2.697068
mean_lto	2,200	3.650269	.0528833	3.559611	3.726445
mean_lreer	2,200	4.632866	.0659639	4.507786	4.700569
mean_lreer~s	2,200	4.574536	.0659639	4.449456	4.642239
mean_ka_open	2,090	.6183107	.0213146	.5573173	.6582235
lgdppk_m	2,200	1	.1175517	.6860171	1.254007
lgdppk_m100	2,200	4.60517	.5413455	3.159225	5.774917
lgdppk_c	2,200	.8653263	.1019833	.599126	1.070424
ka_open_m	2,049	-3.46e-09	.3598359	-.6582235	.4426827
etot	2,200	-.0283768	1.305032	-6.816984	9.551851
etot_lres	2,200	-.1151234	3.760479	-22.0441	23.59367
ltot_lres	2,200	-.0470105	1.062068	-6.8438	6.22602
yr2001	2,200	.05	.2179945	0	1
yr2002	2,200	.05	.2179945	0	1
yr2003	2,200	.05	.2179945	0	1
yr2004	2,200	.05	.2179945	0	1
yr2005	2,200	.05	.2179945	0	1
yr2006	2,200	.05	.2179945	0	1
yr2007	2,200	.05	.2179945	0	1
yr2008	2,200	.05	.2179945	0	1
yr2009	2,200	.05	.2179945	0	1
yr2010	2,200	.05	.2179945	0	1
yr2011	2,200	.05	.2179945	0	1
yr2012	2,200	.05	.2179945	0	1
yr2013	2,200	.05	.2179945	0	1
yr2014	2,200	.05	.2179945	0	1
yr2015	2,200	.05	.2179945	0	1
yr2016	2,200	.05	.2179945	0	1
yr2017	2,200	.05	.2179945	0	1
yr2018	2,200	.05	.2179945	0	1
yr2019	2,200	.05	.2179945	0	1
yr2020	2,200	.05	.2179945	0	1
cny1	2,200	.0090909	.0949335	0	1
cny2	2,200	.0090909	.0949335	0	1

cny3	2,200	.0090909	.0949335	0	1
cny4	2,200	.0090909	.0949335	0	1
cny5	2,200	.0090909	.0949335	0	1
cny6	2,200	.0090909	.0949335	0	1
cny7	2,200	.0090909	.0949335	0	1
cny8	2,200	.0090909	.0949335	0	1
cny9	2,200	.0090909	.0949335	0	1
cny10	2,200	.0090909	.0949335	0	1
cny11	2,200	.0090909	.0949335	0	1
cny12	2,200	.0090909	.0949335	0	1
cny13	2,200	.0090909	.0949335	0	1
cny14	2,200	.0090909	.0949335	0	1
cny15	2,200	.0090909	.0949335	0	1
cny16	2,200	.0090909	.0949335	0	1
cny17	2,200	.0090909	.0949335	0	1
cny18	2,200	.0090909	.0949335	0	1
cny19	2,200	.0090909	.0949335	0	1
cny20	2,200	.0090909	.0949335	0	1
cny21	2,200	.0090909	.0949335	0	1
cny22	2,200	.0090909	.0949335	0	1
cny23	2,200	.0090909	.0949335	0	1
cny24	2,200	.0090909	.0949335	0	1
cny25	2,200	.0090909	.0949335	0	1
cny26	2,200	.0090909	.0949335	0	1
cny27	2,200	.0090909	.0949335	0	1
cny28	2,200	.0090909	.0949335	0	1
cny29	2,200	.0090909	.0949335	0	1
cny30	2,200	.0090909	.0949335	0	1
cny31	2,200	.0090909	.0949335	0	1
cny32	2,200	.0090909	.0949335	0	1
cny33	2,200	.0090909	.0949335	0	1
cny34	2,200	.0090909	.0949335	0	1
cny35	2,200	.0090909	.0949335	0	1
cny36	2,200	.0090909	.0949335	0	1
cny37	2,200	.0090909	.0949335	0	1
cny38	2,200	.0090909	.0949335	0	1
cny39	2,200	.0090909	.0949335	0	1
cny40	2,200	.0090909	.0949335	0	1
cny41	2,200	.0090909	.0949335	0	1
cny42	2,200	.0090909	.0949335	0	1
cny43	2,200	.0090909	.0949335	0	1
cny44	2,200	.0090909	.0949335	0	1
cny45	2,200	.0090909	.0949335	0	1
cny46	2,200	.0090909	.0949335	0	1
cny47	2,200	.0090909	.0949335	0	1
cny48	2,200	.0090909	.0949335	0	1
cny49	2,200	.0090909	.0949335	0	1
cny50	2,200	.0090909	.0949335	0	1
cny51	2,200	.0090909	.0949335	0	1
cny52	2,200	.0090909	.0949335	0	1
cny53	2,200	.0090909	.0949335	0	1
cny54	2,200	.0090909	.0949335	0	1
cny55	2,200	.0090909	.0949335	0	1
cny56	2,200	.0090909	.0949335	0	1
cny57	2,200	.0090909	.0949335	0	1
cny58	2,200	.0090909	.0949335	0	1
cny59	2,200	.0090909	.0949335	0	1
cny60	2,200	.0090909	.0949335	0	1
cny61	2,200	.0090909	.0949335	0	1
cny62	2,200	.0090909	.0949335	0	1
cny63	2,200	.0090909	.0949335	0	1

cny64	2,200	.0090909	.0949335	0	1
cny65	2,200	.0090909	.0949335	0	1
cny66	2,200	.0090909	.0949335	0	1
cny67	2,200	.0090909	.0949335	0	1
cny68	2,200	.0090909	.0949335	0	1
cny69	2,200	.0090909	.0949335	0	1
cny70	2,200	.0090909	.0949335	0	1
cny71	2,200	.0090909	.0949335	0	1
cny72	2,200	.0090909	.0949335	0	1
cny73	2,200	.0090909	.0949335	0	1
cny74	2,200	.0090909	.0949335	0	1
cny75	2,200	.0090909	.0949335	0	1
cny76	2,200	.0090909	.0949335	0	1
cny77	2,200	.0090909	.0949335	0	1
cny78	2,200	.0090909	.0949335	0	1
cny79	2,200	.0090909	.0949335	0	1
cny80	2,200	.0090909	.0949335	0	1
cny81	2,200	.0090909	.0949335	0	1
cny82	2,200	.0090909	.0949335	0	1
cny83	2,200	.0090909	.0949335	0	1
cny84	2,200	.0090909	.0949335	0	1
cny85	2,200	.0090909	.0949335	0	1
cny86	2,200	.0090909	.0949335	0	1
cny87	2,200	.0090909	.0949335	0	1
cny88	2,200	.0090909	.0949335	0	1
cny89	2,200	.0090909	.0949335	0	1
cny90	2,200	.0090909	.0949335	0	1
cny91	2,200	.0090909	.0949335	0	1
cny92	2,200	.0090909	.0949335	0	1
cny93	2,200	.0090909	.0949335	0	1
cny94	2,200	.0090909	.0949335	0	1
cny95	2,200	.0090909	.0949335	0	1
cny96	2,200	.0090909	.0949335	0	1
cny97	2,200	.0090909	.0949335	0	1
cny98	2,200	.0090909	.0949335	0	1
cny99	2,200	.0090909	.0949335	0	1
cny100	2,200	.0090909	.0949335	0	1
cny101	2,200	.0090909	.0949335	0	1
cny102	2,200	.0090909	.0949335	0	1
cny103	2,200	.0090909	.0949335	0	1
cny104	2,200	.0090909	.0949335	0	1
cny105	2,200	.0090909	.0949335	0	1
cny106	2,200	.0090909	.0949335	0	1
cny107	2,200	.0090909	.0949335	0	1
cny108	2,200	.0090909	.0949335	0	1
cny109	2,200	.0090909	.0949335	0	1
cny110	2,200	.0090909	.0949335	0	1
count_lgov~p	2,200	19.33636	2.986333	0	20
count_inf	2,200	19.53636	2.198339	0	20
count_lner~s	2,200	17.04545	6.894761	0	20
count_ka_o~n	2,200	18.62727	2.449523	0	19
count_cum~c	2,200	9.490909	8.988645	0	18
L1lres	2,090	2.513818	.8910657	.0925683	4.697033
etot_L1lres	2,090	-.1356452	3.822141	-23.76123	24.91162
L2lto	1,980	3.65449	.4779124	2.377674	5.392096
manufactured	2,200	.0727273	.2597473	0	1
eurozone	2,200	.1636364	.3700294	0	1

```
Following variable is string, not included:  
countryname cntry countrycode region regionname NAMES_STD country bicode country_name  
sum.tex  
dir : seeout  
  
. .  
. **# Fig. 1. Large holders of international reserves as percent of GDP (before and after the GFC).  
. gen resgdp = (res/gdp)*100  
  
. label list cn  
cn:  
1 Albania  
2 Algeria  
3 Angola  
4 Argentina  
5 Armenia  
6 Australia  
7 Austria  
8 Azerbaijan  
9 Bangladesh  
10 Belarus  
11 Belgium  
12 Bolivia  
13 Botswana  
14 Brazil  
15 Bulgaria  
16 Burundi  
17 Cambodia  
18 Canada  
19 Chile  
20 China  
21 Colombia  
22 Congo, Dem Rep  
23 Costa Rica  
24 Croatia  
25 Cyprus  
26 Czech Republic  
27 Denmark  
28 Dominican Republic  
29 Ecuador  
30 Egypt, Arab Rep  
31 El Salvador  
32 Estonia  
33 Ethiopia  
34 Finland  
35 France  
36 Gambia, The  
37 Georgia  
38 Germany  
39 Ghana  
40 Greece  
41 Guatemala  
42 Guinea  
43 Honduras  
44 Hungary  
45 India  
46 Indonesia  
47 Iraq  
48 Ireland  
49 Israel  
50 Italy  
51 Jamaica  
52 Japan  
53 Kazakhstan  
54 Kenya  
55 Korea, Rep  
56 Kuwait  
57 Kyrgyz Republic  
58 Lao PDR  
59 Latvia
```

60 Lebanon
61 Lithuania
62 Luxembourg
63 Madagascar
64 Malawi
65 Malaysia
66 Mauritania
67 Mauritius
68 Mexico
69 Moldova
70 Mongolia
71 Morocco
72 Mozambique
73 Namibia
74 Nepal
75 Netherlands
76 New Zealand
77 Nicaragua
78 Nigeria
79 North Macedonia
80 Norway
81 Oman
82 Pakistan
83 Panama
84 Paraguay
85 Peru
86 Philippines
87 Poland
88 Portugal
89 Romania
90 Russian Federation
91 Rwanda
92 Saudi Arabia
93 Sierra Leone
94 Singapore
95 Slovak Republic
96 Slovenia
97 South Africa
98 Spain
99 Sri Lanka
100 Sweden
101 Thailand
102 Trinidad and Tobago
103 Tunisia
104 Turkey
105 Ukraine
106 United Kingdom
107 United States
108 Uruguay
109 Vietnam
110 Zambia

. *** Big holders of international reserves ***
. generate bigres = 0

. replace bigres = 1 if cn == 2 | cn == 14 | cn == 19 | ///
> cn == 20 | cn == 21 | cn == 26 | ///
> cn == 44 | cn == 46 | cn == 45 | ///
> cn == 49 | cn == 55 | cn == 68 | ///
> cn == 65 | cn == 85 | cn == 86 | ///
> cn == 87 | cn == 90 | cn == 92 | ///
> cn == 94 | cn == 101 | cn == 104 | ///
> cn == 97 | cn == 4
(460 real changes made)

```
. *** Eurozone ***
.
. cap drop eurozone
.
. generate eurozone = 0
.
. replace eurozone = 1 if cn == 7 | cn == 11 | cn == 25 | ///
>                               cn == 32 | cn == 34 | cn == 35 | ///
>                               cn == 38 | cn == 40 | cn == 48 | ///
>                               cn == 50 | cn == 59 | cn == 61 | ///
>                               cn == 62 | cn == 75 | cn == 88 | ///
>                               cn == 95 | cn == 96 | cn == 98
(360 real changes made)

.
. by cn: egen resgdp_full = mean(resgdp)
.
. by cn: egen resgdp_before = mean(resgdp) if year<2008
(1,430 missing values generated)
.
. by cn: egen resgdp_after = mean(resgdp) if year>2009
(990 missing values generated)
.
. by cn: egen resgdp_full_sd = sd(resgdp)
.
. by cn: egen resgdp_before_sd = sd(resgdp) if year<2008
(1,430 missing values generated)
.
. by cn: egen resgdp_after_sd = sd(resgdp) if year>2009
(990 missing values generated)
.
. **# Before and after the GFC
.
. set scheme sj
.
. graph hbar resgdp_before resgdp_after ///
> if bigres==1, over(cn, sort(1) label(labsize(small))) ///
> legend(col(1)) ///
> title("Before and after the financial crisis")
.
.
. graph rename Graph Bef_Af_Res, replace
(note: graph Bef_Af_Res not found)
.
. graph export Bef_Af_Res.png, as(png) name("Bef_Af_Res") replace
file Bef_Af_Res.png saved as PNG format
.
. graph export Bef_Af_Res.pdf, as(pdf) name("Bef_Af_Res") replace
file Bef_Af_Res.pdf saved as PDF format
.
```

```
. **# Table 2. Baseline nonlinear regression.
.
. // One lag for reserves + Balanced panel
. areg lreer lgpdk_m100 lgovexp c.etot#c.L1lres if count_lgovexp==20, ///
> absorb(cn) vce(bootstrap, reps(200))
(running areg on estimation sample)
```

Bootstrap replications (200):10.....20.....30.....40.....50.....60.....70.....
> ..160.....170.....180.....190.....200 done

Linear regression, absorbing indicators
Absorbed variable: **cn**

	Number of obs	= 1,900
No. of categories	= 100	
Replications	= 200	
Wald chi2(5)	= 143.57	
Prob > chi2	= 0.0000	
R-squared	= 0.4702	
Adj R-squared	= 0.4395	
Root MSE	= 0.1198	

lreer	Observed coefficient	Bootstrap std. err.	z	P> z	Normal-based [95% conf. interval]	
lgdppk_m100	.6588734	.0664667	9.91	0.000	.528601	.7891458
lgovexp	.143499	.0286615	5.01	0.000	.0873234	.1996746
etot	.0369427	.011711	3.15	0.002	.0139895	.0598958
L1lres	.0266451	.0094839	2.81	0.005	.0080569	.0452332
c.etot#c.L1lres	-.0196371	.004077	-4.82	0.000	-.027628	-.0116463
_cons	1.11855	.3350041	3.34	0.001	.4619544	1.775146

```
.
. estimates store BASE

.
. *Run local command and subsequent `strings' together
. local switches "dec(4) tex se e(rmse)"

. outreg2 [BASE*] ///
> using "BASE.tex", replace `switches'
BASE.tex
dir : seeout

.
. **# Fig. 2. 3-D plot for the buffer effect.
.

. **One lag for reserves + Balanced panel**
. areg lreer lgpdk_m100 lgovexp c.etot#c.L1lres yr* ///
> if count_lgovexp==20, ///
> absorb(cn) vce(bootstrap, reps(200))
note: yr2001 omitted because of collinearity.
note: yr2020 omitted because of collinearity.
(running areg on estimation sample)

Bootstrap replications (200): .....10.....20.....30.....40.....50.....60.....70.....  

> ..160.....170.....180.....190.....200 done
```

Linear regression, absorbing indicators
Absorbed variable: **cn**

	Number of obs	= 1,900
No. of categories	= 100	
Replications	= 200	
Wald chi2(23)	= 768.80	
Prob > chi2	= 0.0000	
R-squared	= 0.5872	
Adj R-squared	= 0.5589	
Root MSE	= 0.1062	

lreer	Observed coefficient	Bootstrap std. err.	z	P> z	Normal-based [95% conf. interval]	
lgdppk_m100	.6961449	.0621862	11.19	0.000	.5742622	.8180276
lgovexp	.0763234	.0289012	2.64	0.008	.0196781	.1329687
etot	.0103211	.0125283	0.82	0.410	-.0142339	.0348761
L1lres	.0041584	.0074936	0.55	0.579	-.0105288	.0188456
c.etot#c.L1lres	-.0106418	.0042635	-2.50	0.013	-.0189982	-.0022855
yr2001	0	(omitted)				
yr2002	-.1026613	.0235499	-4.36	0.000	-.1488182	-.0565045
yr2003	-.1355645	.0241818	-5.61	0.000	-.18296	-.0881691
yr2004	-.1324149	.0231603	-5.72	0.000	-.1778081	-.0870216
yr2005	-.0990127	.0232808	-4.25	0.000	-.1446423	-.0533832
yr2006	-.0737178	.0225725	-3.27	0.001	-.117959	-.0294765
yr2007	-.0469793	.0221042	-2.13	0.034	-.0903028	-.0036559
yr2008	-.007597	.0223458	-0.34	0.734	-.051394	.0362
yr2009	-.0153221	.0208917	-0.73	0.463	-.056269	.0256247
yr2010	.007401	.0213998	0.35	0.729	-.0345419	.0493439
yr2011	.0134371	.0213954	0.63	0.530	-.028497	.0553712
yr2012	.0241441	.0212118	1.14	0.255	-.0174302	.0657185
yr2013	.0362277	.020092	1.80	0.071	-.0031519	.0756072
yr2014	.0286857	.0202931	1.41	0.157	-.0110882	.0684595
yr2015	.0278656	.0204034	1.37	0.172	-.0121243	.0678555
yr2016	.0133058	.020346	0.65	0.513	-.0265716	.0531833
yr2017	.0242445	.0214906	1.13	0.259	-.0178762	.0663653
yr2018	.0161068	.0211339	0.76	0.446	-.0253149	.0575286
yr2019	.0165844	.0216243	0.77	0.443	-.0257985	.0589673
yr2020	0	(omitted)				
_cons	1.204825	.3383743	3.56	0.000	.5416239	1.868027

```
.
. // Create predictions for the interaction and store them
. margins, at( L1lres=(1(0.1)5) etot=(1(0.1)5))
```

```
Predictive margins                                         Number of obs = 1,900
Model VCE: Bootstrap
```

```
Expression: Linear prediction, predict()
```

```
1._at: etot = 1
       L1lres = 1
2._at: etot = 1
       L1lres = 1.1
3._at: etot = 1
       L1lres = 1.2
4._at: etot = 1
       L1lres = 1.3
5._at: etot = 1
       L1lres = 1.4
6._at: etot = 1
       L1lres = 1.5
7._at: etot = 1
       L1lres = 1.6
8._at: etot = 1
       L1lres = 1.7
9._at: etot = 1
       L1lres = 1.8
10._at: etot = 1
       L1lres = 1.9
11._at: etot = 1
       L1lres = 2
12._at: etot = 1
       L1lres = 2.1
13._at: etot = 1
       L1lres = 2.2
14._at: etot = 1
       L1lres = 2.3
15._at: etot = 1
       L1lres = 2.4
16._at: etot = 1
```

```
        L1lres = 2.5
17._at: etot   = 1
         L1lres = 2.6
18._at: etot   = 1
         L1lres = 2.7
19._at: etot   = 1
         L1lres = 2.8
20._at: etot   = 1
         L1lres = 2.9
21._at: etot   = 1
         L1lres = 3
22._at: etot   = 1
         L1lres = 3.1
23._at: etot   = 1
         L1lres = 3.2
24._at: etot   = 1
         L1lres = 3.3
25._at: etot   = 1
         L1lres = 3.4
26._at: etot   = 1
         L1lres = 3.5
27._at: etot   = 1
         L1lres = 3.6
28._at: etot   = 1
         L1lres = 3.7
29._at: etot   = 1
         L1lres = 3.8
30._at: etot   = 1
         L1lres = 3.9
31._at: etot   = 1
         L1lres = 4
32._at: etot   = 1
         L1lres = 4.1
33._at: etot   = 1
         L1lres = 4.2
34._at: etot   = 1
         L1lres = 4.3
35._at: etot   = 1
         L1lres = 4.4
36._at: etot   = 1
         L1lres = 4.5
37._at: etot   = 1
         L1lres = 4.6
38._at: etot   = 1
         L1lres = 4.7
39._at: etot   = 1
         L1lres = 4.8
40._at: etot   = 1
         L1lres = 4.9
41._at: etot   = 1
         L1lres = 5
42._at: etot   = 1.1
         L1lres = 1
43._at: etot   = 1.1
         L1lres = 1.1
44._at: etot   = 1.1
         L1lres = 1.2
45._at: etot   = 1.1
         L1lres = 1.3
46._at: etot   = 1.1
         L1lres = 1.4
47._at: etot   = 1.1
         L1lres = 1.5
48._at: etot   = 1.1
         L1lres = 1.6
49._at: etot   = 1.1
         L1lres = 1.7
50._at: etot   = 1.1
         L1lres = 1.8
51._at: etot   = 1.1
         L1lres = 1.9
52._at: etot   = 1.1
         L1lres = 2
```

```
53._at: etot = 1.1  
      L1lres = 2.1  
54._at: etot = 1.1  
      L1lres = 2.2  
55._at: etot = 1.1  
      L1lres = 2.3  
56._at: etot = 1.1  
      L1lres = 2.4  
57._at: etot = 1.1  
      L1lres = 2.5  
58._at: etot = 1.1  
      L1lres = 2.6  
59._at: etot = 1.1  
      L1lres = 2.7  
60._at: etot = 1.1  
      L1lres = 2.8  
61._at: etot = 1.1  
      L1lres = 2.9  
62._at: etot = 1.1  
      L1lres = 3  
63._at: etot = 1.1  
      L1lres = 3.1  
64._at: etot = 1.1  
      L1lres = 3.2  
65._at: etot = 1.1  
      L1lres = 3.3  
66._at: etot = 1.1  
      L1lres = 3.4  
67._at: etot = 1.1  
      L1lres = 3.5  
68._at: etot = 1.1  
      L1lres = 3.6  
69._at: etot = 1.1  
      L1lres = 3.7  
70._at: etot = 1.1  
      L1lres = 3.8  
71._at: etot = 1.1  
      L1lres = 3.9  
72._at: etot = 1.1  
      L1lres = 4  
73._at: etot = 1.1  
      L1lres = 4.1  
74._at: etot = 1.1  
      L1lres = 4.2  
75._at: etot = 1.1  
      L1lres = 4.3  
76._at: etot = 1.1  
      L1lres = 4.4  
77._at: etot = 1.1  
      L1lres = 4.5  
78._at: etot = 1.1  
      L1lres = 4.6  
79._at: etot = 1.1  
      L1lres = 4.7  
80._at: etot = 1.1  
      L1lres = 4.8  
81._at: etot = 1.1  
      L1lres = 4.9  
82._at: etot = 1.1  
      L1lres = 5  
83._at: etot = 1.2  
      L1lres = 1  
84._at: etot = 1.2  
      L1lres = 1.1  
85._at: etot = 1.2  
      L1lres = 1.2  
86._at: etot = 1.2  
      L1lres = 1.3  
87._at: etot = 1.2  
      L1lres = 1.4  
88._at: etot = 1.2  
      L1lres = 1.5  
89._at: etot = 1.2
```

```
        L1lres = 1.6
90._at: etot   = 1.2
         L1lres = 1.7
91._at: etot   = 1.2
         L1lres = 1.8
92._at: etot   = 1.2
         L1lres = 1.9
93._at: etot   = 1.2
         L1lres = 2
94._at: etot   = 1.2
         L1lres = 2.1
95._at: etot   = 1.2
         L1lres = 2.2
96._at: etot   = 1.2
         L1lres = 2.3
97._at: etot   = 1.2
         L1lres = 2.4
98._at: etot   = 1.2
         L1lres = 2.5
99._at: etot   = 1.2
         L1lres = 2.6
100._at: etot   = 1.2
         L1lres = 2.7
101._at: etot   = 1.2
         L1lres = 2.8
102._at: etot   = 1.2
         L1lres = 2.9
103._at: etot   = 1.2
         L1lres = 3
104._at: etot   = 1.2
         L1lres = 3.1
105._at: etot   = 1.2
         L1lres = 3.2
106._at: etot   = 1.2
         L1lres = 3.3
107._at: etot   = 1.2
         L1lres = 3.4
108._at: etot   = 1.2
         L1lres = 3.5
109._at: etot   = 1.2
         L1lres = 3.6
110._at: etot   = 1.2
         L1lres = 3.7
111._at: etot   = 1.2
         L1lres = 3.8
112._at: etot   = 1.2
         L1lres = 3.9
113._at: etot   = 1.2
         L1lres = 4
114._at: etot   = 1.2
         L1lres = 4.1
115._at: etot   = 1.2
         L1lres = 4.2
116._at: etot   = 1.2
         L1lres = 4.3
117._at: etot   = 1.2
         L1lres = 4.4
118._at: etot   = 1.2
         L1lres = 4.5
119._at: etot   = 1.2
         L1lres = 4.6
120._at: etot   = 1.2
         L1lres = 4.7
121._at: etot   = 1.2
         L1lres = 4.8
122._at: etot   = 1.2
         L1lres = 4.9
123._at: etot   = 1.2
         L1lres = 5
124._at: etot   = 1.3
         L1lres = 1
125._at: etot   = 1.3
         L1lres = 1.1
```

```
126._at: etot = 1.3
          L1lres = 1.2
127._at: etot = 1.3
          L1lres = 1.3
128._at: etot = 1.3
          L1lres = 1.4
129._at: etot = 1.3
          L1lres = 1.5
130._at: etot = 1.3
          L1lres = 1.6
131._at: etot = 1.3
          L1lres = 1.7
132._at: etot = 1.3
          L1lres = 1.8
133._at: etot = 1.3
          L1lres = 1.9
134._at: etot = 1.3
          L1lres = 2
135._at: etot = 1.3
          L1lres = 2.1
136._at: etot = 1.3
          L1lres = 2.2
137._at: etot = 1.3
          L1lres = 2.3
138._at: etot = 1.3
          L1lres = 2.4
139._at: etot = 1.3
          L1lres = 2.5
140._at: etot = 1.3
          L1lres = 2.6
141._at: etot = 1.3
          L1lres = 2.7
142._at: etot = 1.3
          L1lres = 2.8
143._at: etot = 1.3
          L1lres = 2.9
144._at: etot = 1.3
          L1lres = 3
145._at: etot = 1.3
          L1lres = 3.1
146._at: etot = 1.3
          L1lres = 3.2
147._at: etot = 1.3
          L1lres = 3.3
148._at: etot = 1.3
          L1lres = 3.4
149._at: etot = 1.3
          L1lres = 3.5
150._at: etot = 1.3
          L1lres = 3.6
151._at: etot = 1.3
          L1lres = 3.7
152._at: etot = 1.3
          L1lres = 3.8
153._at: etot = 1.3
          L1lres = 3.9
154._at: etot = 1.3
          L1lres = 4
155._at: etot = 1.3
          L1lres = 4.1
156._at: etot = 1.3
          L1lres = 4.2
157._at: etot = 1.3
          L1lres = 4.3
158._at: etot = 1.3
          L1lres = 4.4
159._at: etot = 1.3
          L1lres = 4.5
160._at: etot = 1.3
          L1lres = 4.6
161._at: etot = 1.3
          L1lres = 4.7
162._at: etot = 1.3
```

```
      L1lres = 4.8
163._at: etot   = 1.3
          L1lres = 4.9
164._at: etot   = 1.3
          L1lres = 5
165._at: etot   = 1.4
          L1lres = 1
166._at: etot   = 1.4
          L1lres = 1.1
167._at: etot   = 1.4
          L1lres = 1.2
168._at: etot   = 1.4
          L1lres = 1.3
169._at: etot   = 1.4
          L1lres = 1.4
170._at: etot   = 1.4
          L1lres = 1.5
171._at: etot   = 1.4
          L1lres = 1.6
172._at: etot   = 1.4
          L1lres = 1.7
173._at: etot   = 1.4
          L1lres = 1.8
174._at: etot   = 1.4
          L1lres = 1.9
175._at: etot   = 1.4
          L1lres = 2
176._at: etot   = 1.4
          L1lres = 2.1
177._at: etot   = 1.4
          L1lres = 2.2
178._at: etot   = 1.4
          L1lres = 2.3
179._at: etot   = 1.4
          L1lres = 2.4
180._at: etot   = 1.4
          L1lres = 2.5
181._at: etot   = 1.4
          L1lres = 2.6
182._at: etot   = 1.4
          L1lres = 2.7
183._at: etot   = 1.4
          L1lres = 2.8
184._at: etot   = 1.4
          L1lres = 2.9
185._at: etot   = 1.4
          L1lres = 3
186._at: etot   = 1.4
          L1lres = 3.1
187._at: etot   = 1.4
          L1lres = 3.2
188._at: etot   = 1.4
          L1lres = 3.3
189._at: etot   = 1.4
          L1lres = 3.4
190._at: etot   = 1.4
          L1lres = 3.5
191._at: etot   = 1.4
          L1lres = 3.6
192._at: etot   = 1.4
          L1lres = 3.7
193._at: etot   = 1.4
          L1lres = 3.8
194._at: etot   = 1.4
          L1lres = 3.9
195._at: etot   = 1.4
          L1lres = 4
196._at: etot   = 1.4
          L1lres = 4.1
197._at: etot   = 1.4
          L1lres = 4.2
198._at: etot   = 1.4
          L1lres = 4.3
```

```
199._at: etot = 1.4
          L1lres = 4.4
200._at: etot = 1.4
          L1lres = 4.5
201._at: etot = 1.4
          L1lres = 4.6
202._at: etot = 1.4
          L1lres = 4.7
203._at: etot = 1.4
          L1lres = 4.8
204._at: etot = 1.4
          L1lres = 4.9
205._at: etot = 1.4
          L1lres = 5
206._at: etot = 1.5
          L1lres = 1
207._at: etot = 1.5
          L1lres = 1.1
208._at: etot = 1.5
          L1lres = 1.2
209._at: etot = 1.5
          L1lres = 1.3
210._at: etot = 1.5
          L1lres = 1.4
211._at: etot = 1.5
          L1lres = 1.5
212._at: etot = 1.5
          L1lres = 1.6
213._at: etot = 1.5
          L1lres = 1.7
214._at: etot = 1.5
          L1lres = 1.8
215._at: etot = 1.5
          L1lres = 1.9
216._at: etot = 1.5
          L1lres = 2
217._at: etot = 1.5
          L1lres = 2.1
218._at: etot = 1.5
          L1lres = 2.2
219._at: etot = 1.5
          L1lres = 2.3
220._at: etot = 1.5
          L1lres = 2.4
221._at: etot = 1.5
          L1lres = 2.5
222._at: etot = 1.5
          L1lres = 2.6
223._at: etot = 1.5
          L1lres = 2.7
224._at: etot = 1.5
          L1lres = 2.8
225._at: etot = 1.5
          L1lres = 2.9
226._at: etot = 1.5
          L1lres = 3
227._at: etot = 1.5
          L1lres = 3.1
228._at: etot = 1.5
          L1lres = 3.2
229._at: etot = 1.5
          L1lres = 3.3
230._at: etot = 1.5
          L1lres = 3.4
231._at: etot = 1.5
          L1lres = 3.5
232._at: etot = 1.5
          L1lres = 3.6
233._at: etot = 1.5
          L1lres = 3.7
234._at: etot = 1.5
          L1lres = 3.8
235._at: etot = 1.5
```

```
        L1lres = 3.9
236._at: etot   = 1.5
          L1lres = 4
237._at: etot   = 1.5
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238._at: etot   = 1.5
          L1lres = 4.2
239._at: etot   = 1.5
          L1lres = 4.3
240._at: etot   = 1.5
          L1lres = 4.4
241._at: etot   = 1.5
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242._at: etot   = 1.5
          L1lres = 4.6
243._at: etot   = 1.5
          L1lres = 4.7
244._at: etot   = 1.5
          L1lres = 4.8
245._at: etot   = 1.5
          L1lres = 4.9
246._at: etot   = 1.5
          L1lres = 5
247._at: etot   = 1.6
          L1lres = 1
248._at: etot   = 1.6
          L1lres = 1.1
249._at: etot   = 1.6
          L1lres = 1.2
250._at: etot   = 1.6
          L1lres = 1.3
251._at: etot   = 1.6
          L1lres = 1.4
252._at: etot   = 1.6
          L1lres = 1.5
253._at: etot   = 1.6
          L1lres = 1.6
254._at: etot   = 1.6
          L1lres = 1.7
255._at: etot   = 1.6
          L1lres = 1.8
256._at: etot   = 1.6
          L1lres = 1.9
257._at: etot   = 1.6
          L1lres = 2
258._at: etot   = 1.6
          L1lres = 2.1
259._at: etot   = 1.6
          L1lres = 2.2
260._at: etot   = 1.6
          L1lres = 2.3
261._at: etot   = 1.6
          L1lres = 2.4
262._at: etot   = 1.6
          L1lres = 2.5
263._at: etot   = 1.6
          L1lres = 2.6
264._at: etot   = 1.6
          L1lres = 2.7
265._at: etot   = 1.6
          L1lres = 2.8
266._at: etot   = 1.6
          L1lres = 2.9
267._at: etot   = 1.6
          L1lres = 3
268._at: etot   = 1.6
          L1lres = 3.1
269._at: etot   = 1.6
          L1lres = 3.2
270._at: etot   = 1.6
          L1lres = 3.3
271._at: etot   = 1.6
          L1lres = 3.4
```

```
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273._at: etot = 1.6
          L1lres = 3.6
274._at: etot = 1.6
          L1lres = 3.7
275._at: etot = 1.6
          L1lres = 3.8
276._at: etot = 1.6
          L1lres = 3.9
277._at: etot = 1.6
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278._at: etot = 1.6
          L1lres = 4.1
279._at: etot = 1.6
          L1lres = 4.2
280._at: etot = 1.6
          L1lres = 4.3
281._at: etot = 1.6
          L1lres = 4.4
282._at: etot = 1.6
          L1lres = 4.5
283._at: etot = 1.6
          L1lres = 4.6
284._at: etot = 1.6
          L1lres = 4.7
285._at: etot = 1.6
          L1lres = 4.8
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          L1lres = 1
289._at: etot = 1.7
          L1lres = 1.1
290._at: etot = 1.7
          L1lres = 1.2
291._at: etot = 1.7
          L1lres = 1.3
292._at: etot = 1.7
          L1lres = 1.4
293._at: etot = 1.7
          L1lres = 1.5
294._at: etot = 1.7
          L1lres = 1.6
295._at: etot = 1.7
          L1lres = 1.7
296._at: etot = 1.7
          L1lres = 1.8
297._at: etot = 1.7
          L1lres = 1.9
298._at: etot = 1.7
          L1lres = 2
299._at: etot = 1.7
          L1lres = 2.1
300._at: etot = 1.7
          L1lres = 2.2
301._at: etot = 1.7
          L1lres = 2.3
302._at: etot = 1.7
          L1lres = 2.4
303._at: etot = 1.7
          L1lres = 2.5
304._at: etot = 1.7
          L1lres = 2.6
305._at: etot = 1.7
          L1lres = 2.7
306._at: etot = 1.7
          L1lres = 2.8
307._at: etot = 1.7
          L1lres = 2.9
308._at: etot = 1.7
```

```
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310._at: etot   = 1.7
          L1lres = 3.2
311._at: etot   = 1.7
          L1lres = 3.3
312._at: etot   = 1.7
          L1lres = 3.4
313._at: etot   = 1.7
          L1lres = 3.5
314._at: etot   = 1.7
          L1lres = 3.6
315._at: etot   = 1.7
          L1lres = 3.7
316._at: etot   = 1.7
          L1lres = 3.8
317._at: etot   = 1.7
          L1lres = 3.9
318._at: etot   = 1.7
          L1lres = 4
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320._at: etot   = 1.7
          L1lres = 4.2
321._at: etot   = 1.7
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322._at: etot   = 1.7
          L1lres = 4.4
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324._at: etot   = 1.7
          L1lres = 4.6
325._at: etot   = 1.7
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327._at: etot   = 1.7
          L1lres = 4.9
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          L1lres = 5
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          L1lres = 1
330._at: etot   = 1.8
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331._at: etot   = 1.8
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332._at: etot   = 1.8
          L1lres = 1.3
333._at: etot   = 1.8
          L1lres = 1.4
334._at: etot   = 1.8
          L1lres = 1.5
335._at: etot   = 1.8
          L1lres = 1.6
336._at: etot   = 1.8
          L1lres = 1.7
337._at: etot   = 1.8
          L1lres = 1.8
338._at: etot   = 1.8
          L1lres = 1.9
339._at: etot   = 1.8
          L1lres = 2
340._at: etot   = 1.8
          L1lres = 2.1
341._at: etot   = 1.8
          L1lres = 2.2
342._at: etot   = 1.8
          L1lres = 2.3
343._at: etot   = 1.8
          L1lres = 2.4
344._at: etot   = 1.8
          L1lres = 2.5
```

```
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346._at: etot = 1.8
          L1lres = 2.7
347._at: etot = 1.8
          L1lres = 2.8
348._at: etot = 1.8
          L1lres = 2.9
349._at: etot = 1.8
          L1lres = 3
350._at: etot = 1.8
          L1lres = 3.1
351._at: etot = 1.8
          L1lres = 3.2
352._at: etot = 1.8
          L1lres = 3.3
353._at: etot = 1.8
          L1lres = 3.4
354._at: etot = 1.8
          L1lres = 3.5
355._at: etot = 1.8
          L1lres = 3.6
356._at: etot = 1.8
          L1lres = 3.7
357._at: etot = 1.8
          L1lres = 3.8
358._at: etot = 1.8
          L1lres = 3.9
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          L1lres = 4
360._at: etot = 1.8
          L1lres = 4.1
361._at: etot = 1.8
          L1lres = 4.2
362._at: etot = 1.8
          L1lres = 4.3
363._at: etot = 1.8
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366._at: etot = 1.8
          L1lres = 4.7
367._at: etot = 1.8
          L1lres = 4.8
368._at: etot = 1.8
          L1lres = 4.9
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          L1lres = 5
370._at: etot = 1.9
          L1lres = 1
371._at: etot = 1.9
          L1lres = 1.1
372._at: etot = 1.9
          L1lres = 1.2
373._at: etot = 1.9
          L1lres = 1.3
374._at: etot = 1.9
          L1lres = 1.4
375._at: etot = 1.9
          L1lres = 1.5
376._at: etot = 1.9
          L1lres = 1.6
377._at: etot = 1.9
          L1lres = 1.7
378._at: etot = 1.9
          L1lres = 1.8
379._at: etot = 1.9
          L1lres = 1.9
380._at: etot = 1.9
          L1lres = 2
381._at: etot = 1.9
```

```
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382._at: etot   = 1.9
          L1lres = 2.2
383._at: etot   = 1.9
          L1lres = 2.3
384._at: etot   = 1.9
          L1lres = 2.4
385._at: etot   = 1.9
          L1lres = 2.5
386._at: etot   = 1.9
          L1lres = 2.6
387._at: etot   = 1.9
          L1lres = 2.7
388._at: etot   = 1.9
          L1lres = 2.8
389._at: etot   = 1.9
          L1lres = 2.9
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393._at: etot   = 1.9
          L1lres = 3.3
394._at: etot   = 1.9
          L1lres = 3.4
395._at: etot   = 1.9
          L1lres = 3.5
396._at: etot   = 1.9
          L1lres = 3.6
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398._at: etot   = 1.9
          L1lres = 3.8
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          L1lres = 3.9
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          L1lres = 4.1
402._at: etot   = 1.9
          L1lres = 4.2
403._at: etot   = 1.9
          L1lres = 4.3
404._at: etot   = 1.9
          L1lres = 4.4
405._at: etot   = 1.9
          L1lres = 4.5
406._at: etot   = 1.9
          L1lres = 4.6
407._at: etot   = 1.9
          L1lres = 4.7
408._at: etot   = 1.9
          L1lres = 4.8
409._at: etot   = 1.9
          L1lres = 4.9
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          L1lres = 5
411._at: etot   = 2
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412._at: etot   = 2
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413._at: etot   = 2
          L1lres = 1.2
414._at: etot   = 2
          L1lres = 1.3
415._at: etot   = 2
          L1lres = 1.4
416._at: etot   = 2
          L1lres = 1.5
417._at: etot   = 2
          L1lres = 1.6
```

```
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419._at: etot = 2
          L1lres = 1.8
420._at: etot = 2
          L1lres = 1.9
421._at: etot = 2
          L1lres = 2
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423._at: etot = 2
          L1lres = 2.2
424._at: etot = 2
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425._at: etot = 2
          L1lres = 2.4
426._at: etot = 2
          L1lres = 2.5
427._at: etot = 2
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428._at: etot = 2
          L1lres = 2.7
429._at: etot = 2
          L1lres = 2.8
430._at: etot = 2
          L1lres = 2.9
431._at: etot = 2
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432._at: etot = 2
          L1lres = 3.1
433._at: etot = 2
          L1lres = 3.2
434._at: etot = 2
          L1lres = 3.3
435._at: etot = 2
          L1lres = 3.4
436._at: etot = 2
          L1lres = 3.5
437._at: etot = 2
          L1lres = 3.6
438._at: etot = 2
          L1lres = 3.7
439._at: etot = 2
          L1lres = 3.8
440._at: etot = 2
          L1lres = 3.9
441._at: etot = 2
          L1lres = 4
442._at: etot = 2
          L1lres = 4.1
443._at: etot = 2
          L1lres = 4.2
444._at: etot = 2
          L1lres = 4.3
445._at: etot = 2
          L1lres = 4.4
446._at: etot = 2
          L1lres = 4.5
447._at: etot = 2
          L1lres = 4.6
448._at: etot = 2
          L1lres = 4.7
449._at: etot = 2
          L1lres = 4.8
450._at: etot = 2
          L1lres = 4.9
451._at: etot = 2
          L1lres = 5
452._at: etot = 2.1
          L1lres = 1
453._at: etot = 2.1
          L1lres = 1.1
454._at: etot = 2.1
```

```
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456._at: etot   = 2.1
          L1lres = 1.4
457._at: etot   = 2.1
          L1lres = 1.5
458._at: etot   = 2.1
          L1lres = 1.6
459._at: etot   = 2.1
          L1lres = 1.7
460._at: etot   = 2.1
          L1lres = 1.8
461._at: etot   = 2.1
          L1lres = 1.9
462._at: etot   = 2.1
          L1lres = 2
463._at: etot   = 2.1
          L1lres = 2.1
464._at: etot   = 2.1
          L1lres = 2.2
465._at: etot   = 2.1
          L1lres = 2.3
466._at: etot   = 2.1
          L1lres = 2.4
467._at: etot   = 2.1
          L1lres = 2.5
468._at: etot   = 2.1
          L1lres = 2.6
469._at: etot   = 2.1
          L1lres = 2.7
470._at: etot   = 2.1
          L1lres = 2.8
471._at: etot   = 2.1
          L1lres = 2.9
472._at: etot   = 2.1
          L1lres = 3
473._at: etot   = 2.1
          L1lres = 3.1
474._at: etot   = 2.1
          L1lres = 3.2
475._at: etot   = 2.1
          L1lres = 3.3
476._at: etot   = 2.1
          L1lres = 3.4
477._at: etot   = 2.1
          L1lres = 3.5
478._at: etot   = 2.1
          L1lres = 3.6
479._at: etot   = 2.1
          L1lres = 3.7
480._at: etot   = 2.1
          L1lres = 3.8
481._at: etot   = 2.1
          L1lres = 3.9
482._at: etot   = 2.1
          L1lres = 4
483._at: etot   = 2.1
          L1lres = 4.1
484._at: etot   = 2.1
          L1lres = 4.2
485._at: etot   = 2.1
          L1lres = 4.3
486._at: etot   = 2.1
          L1lres = 4.4
487._at: etot   = 2.1
          L1lres = 4.5
488._at: etot   = 2.1
          L1lres = 4.6
489._at: etot   = 2.1
          L1lres = 4.7
490._at: etot   = 2.1
          L1lres = 4.8
```

```
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        L1lres = 5
493._at: etot = 2.2
        L1lres = 1
494._at: etot = 2.2
        L1lres = 1.1
495._at: etot = 2.2
        L1lres = 1.2
496._at: etot = 2.2
        L1lres = 1.3
497._at: etot = 2.2
        L1lres = 1.4
498._at: etot = 2.2
        L1lres = 1.5
499._at: etot = 2.2
        L1lres = 1.6
500._at: etot = 2.2
        L1lres = 1.7
501._at: etot = 2.2
        L1lres = 1.8
502._at: etot = 2.2
        L1lres = 1.9
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        L1lres = 2
504._at: etot = 2.2
        L1lres = 2.1
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        L1lres = 2.2
506._at: etot = 2.2
        L1lres = 2.3
507._at: etot = 2.2
        L1lres = 2.4
508._at: etot = 2.2
        L1lres = 2.5
509._at: etot = 2.2
        L1lres = 2.6
510._at: etot = 2.2
        L1lres = 2.7
511._at: etot = 2.2
        L1lres = 2.8
512._at: etot = 2.2
        L1lres = 2.9
513._at: etot = 2.2
        L1lres = 3
514._at: etot = 2.2
        L1lres = 3.1
515._at: etot = 2.2
        L1lres = 3.2
516._at: etot = 2.2
        L1lres = 3.3
517._at: etot = 2.2
        L1lres = 3.4
518._at: etot = 2.2
        L1lres = 3.5
519._at: etot = 2.2
        L1lres = 3.6
520._at: etot = 2.2
        L1lres = 3.7
521._at: etot = 2.2
        L1lres = 3.8
522._at: etot = 2.2
        L1lres = 3.9
523._at: etot = 2.2
        L1lres = 4
524._at: etot = 2.2
        L1lres = 4.1
525._at: etot = 2.2
        L1lres = 4.2
526._at: etot = 2.2
        L1lres = 4.3
527._at: etot = 2.2
```

```
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          L1lres = 4.5
529._at: etot   = 2.2
          L1lres = 4.6
530._at: etot   = 2.2
          L1lres = 4.7
531._at: etot   = 2.2
          L1lres = 4.8
532._at: etot   = 2.2
          L1lres = 4.9
533._at: etot   = 2.2
          L1lres = 5
534._at: etot   = 2.3
          L1lres = 1
535._at: etot   = 2.3
          L1lres = 1.1
536._at: etot   = 2.3
          L1lres = 1.2
537._at: etot   = 2.3
          L1lres = 1.3
538._at: etot   = 2.3
          L1lres = 1.4
539._at: etot   = 2.3
          L1lres = 1.5
540._at: etot   = 2.3
          L1lres = 1.6
541._at: etot   = 2.3
          L1lres = 1.7
542._at: etot   = 2.3
          L1lres = 1.8
543._at: etot   = 2.3
          L1lres = 1.9
544._at: etot   = 2.3
          L1lres = 2
545._at: etot   = 2.3
          L1lres = 2.1
546._at: etot   = 2.3
          L1lres = 2.2
547._at: etot   = 2.3
          L1lres = 2.3
548._at: etot   = 2.3
          L1lres = 2.4
549._at: etot   = 2.3
          L1lres = 2.5
550._at: etot   = 2.3
          L1lres = 2.6
551._at: etot   = 2.3
          L1lres = 2.7
552._at: etot   = 2.3
          L1lres = 2.8
553._at: etot   = 2.3
          L1lres = 2.9
554._at: etot   = 2.3
          L1lres = 3
555._at: etot   = 2.3
          L1lres = 3.1
556._at: etot   = 2.3
          L1lres = 3.2
557._at: etot   = 2.3
          L1lres = 3.3
558._at: etot   = 2.3
          L1lres = 3.4
559._at: etot   = 2.3
          L1lres = 3.5
560._at: etot   = 2.3
          L1lres = 3.6
561._at: etot   = 2.3
          L1lres = 3.7
562._at: etot   = 2.3
          L1lres = 3.8
563._at: etot   = 2.3
          L1lres = 3.9
```

```
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565._at: etot = 2.3
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566._at: etot = 2.3
      L1lres = 4.2
567._at: etot = 2.3
      L1lres = 4.3
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      L1lres = 4.6
571._at: etot = 2.3
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      L1lres = 4.8
573._at: etot = 2.3
      L1lres = 4.9
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578._at: etot = 2.4
      L1lres = 1.3
579._at: etot = 2.4
      L1lres = 1.4
580._at: etot = 2.4
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      L1lres = 1.6
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      L1lres = 1.7
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      L1lres = 1.8
584._at: etot = 2.4
      L1lres = 1.9
585._at: etot = 2.4
      L1lres = 2
586._at: etot = 2.4
      L1lres = 2.1
587._at: etot = 2.4
      L1lres = 2.2
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589._at: etot = 2.4
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590._at: etot = 2.4
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591._at: etot = 2.4
      L1lres = 2.6
592._at: etot = 2.4
      L1lres = 2.7
593._at: etot = 2.4
      L1lres = 2.8
594._at: etot = 2.4
      L1lres = 2.9
595._at: etot = 2.4
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596._at: etot = 2.4
      L1lres = 3.1
597._at: etot = 2.4
      L1lres = 3.2
598._at: etot = 2.4
      L1lres = 3.3
599._at: etot = 2.4
      L1lres = 3.4
600._at: etot = 2.4
```

```
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602._at: etot   = 2.4
          L1lres = 3.7
603._at: etot   = 2.4
          L1lres = 3.8
604._at: etot   = 2.4
          L1lres = 3.9
605._at: etot   = 2.4
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606._at: etot   = 2.4
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607._at: etot   = 2.4
          L1lres = 4.2
608._at: etot   = 2.4
          L1lres = 4.3
609._at: etot   = 2.4
          L1lres = 4.4
610._at: etot   = 2.4
          L1lres = 4.5
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          L1lres = 4.6
612._at: etot   = 2.4
          L1lres = 4.7
613._at: etot   = 2.4
          L1lres = 4.8
614._at: etot   = 2.4
          L1lres = 4.9
615._at: etot   = 2.4
          L1lres = 5
616._at: etot   = 2.5
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617._at: etot   = 2.5
          L1lres = 1.1
618._at: etot   = 2.5
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619._at: etot   = 2.5
          L1lres = 1.3
620._at: etot   = 2.5
          L1lres = 1.4
621._at: etot   = 2.5
          L1lres = 1.5
622._at: etot   = 2.5
          L1lres = 1.6
623._at: etot   = 2.5
          L1lres = 1.7
624._at: etot   = 2.5
          L1lres = 1.8
625._at: etot   = 2.5
          L1lres = 1.9
626._at: etot   = 2.5
          L1lres = 2
627._at: etot   = 2.5
          L1lres = 2.1
628._at: etot   = 2.5
          L1lres = 2.2
629._at: etot   = 2.5
          L1lres = 2.3
630._at: etot   = 2.5
          L1lres = 2.4
631._at: etot   = 2.5
          L1lres = 2.5
632._at: etot   = 2.5
          L1lres = 2.6
633._at: etot   = 2.5
          L1lres = 2.7
634._at: etot   = 2.5
          L1lres = 2.8
635._at: etot   = 2.5
          L1lres = 2.9
636._at: etot   = 2.5
          L1lres = 3
```

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638._at: etot = 2.5
          L1lres = 3.2
639._at: etot = 2.5
          L1lres = 3.3
640._at: etot = 2.5
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641._at: etot = 2.5
          L1lres = 3.5
642._at: etot = 2.5
          L1lres = 3.6
643._at: etot = 2.5
          L1lres = 3.7
644._at: etot = 2.5
          L1lres = 3.8
645._at: etot = 2.5
          L1lres = 3.9
646._at: etot = 2.5
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647._at: etot = 2.5
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648._at: etot = 2.5
          L1lres = 4.2
649._at: etot = 2.5
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650._at: etot = 2.5
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651._at: etot = 2.5
          L1lres = 4.5
652._at: etot = 2.5
          L1lres = 4.6
653._at: etot = 2.5
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654._at: etot = 2.5
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655._at: etot = 2.5
          L1lres = 4.9
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657._at: etot = 2.6
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658._at: etot = 2.6
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659._at: etot = 2.6
          L1lres = 1.2
660._at: etot = 2.6
          L1lres = 1.3
661._at: etot = 2.6
          L1lres = 1.4
662._at: etot = 2.6
          L1lres = 1.5
663._at: etot = 2.6
          L1lres = 1.6
664._at: etot = 2.6
          L1lres = 1.7
665._at: etot = 2.6
          L1lres = 1.8
666._at: etot = 2.6
          L1lres = 1.9
667._at: etot = 2.6
          L1lres = 2
668._at: etot = 2.6
          L1lres = 2.1
669._at: etot = 2.6
          L1lres = 2.2
670._at: etot = 2.6
          L1lres = 2.3
671._at: etot = 2.6
          L1lres = 2.4
672._at: etot = 2.6
          L1lres = 2.5
673._at: etot = 2.6
```

```
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          L1lres = 2.8
676._at: etot   = 2.6
          L1lres = 2.9
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          L1lres = 3
678._at: etot   = 2.6
          L1lres = 3.1
679._at: etot   = 2.6
          L1lres = 3.2
680._at: etot   = 2.6
          L1lres = 3.3
681._at: etot   = 2.6
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          L1lres = 3.5
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          L1lres = 3.6
684._at: etot   = 2.6
          L1lres = 3.7
685._at: etot   = 2.6
          L1lres = 3.8
686._at: etot   = 2.6
          L1lres = 3.9
687._at: etot   = 2.6
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688._at: etot   = 2.6
          L1lres = 4.1
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          L1lres = 4.3
691._at: etot   = 2.6
          L1lres = 4.4
692._at: etot   = 2.6
          L1lres = 4.5
693._at: etot   = 2.6
          L1lres = 4.6
694._at: etot   = 2.6
          L1lres = 4.7
695._at: etot   = 2.6
          L1lres = 4.8
696._at: etot   = 2.6
          L1lres = 4.9
697._at: etot   = 2.6
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698._at: etot   = 2.7
          L1lres = 1
699._at: etot   = 2.7
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          L1lres = 1.3
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          L1lres = 1.4
703._at: etot   = 2.7
          L1lres = 1.5
704._at: etot   = 2.7
          L1lres = 1.6
705._at: etot   = 2.7
          L1lres = 1.7
706._at: etot   = 2.7
          L1lres = 1.8
707._at: etot   = 2.7
          L1lres = 1.9
708._at: etot   = 2.7
          L1lres = 2
709._at: etot   = 2.7
          L1lres = 2.1
```

```
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711._at: etot = 2.7
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713._at: etot = 2.7
          L1lres = 2.5
714._at: etot = 2.7
          L1lres = 2.6
715._at: etot = 2.7
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716._at: etot = 2.7
          L1lres = 2.8
717._at: etot = 2.7
          L1lres = 2.9
718._at: etot = 2.7
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719._at: etot = 2.7
          L1lres = 3.1
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          L1lres = 3.2
721._at: etot = 2.7
          L1lres = 3.3
722._at: etot = 2.7
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723._at: etot = 2.7
          L1lres = 3.5
724._at: etot = 2.7
          L1lres = 3.6
725._at: etot = 2.7
          L1lres = 3.7
726._at: etot = 2.7
          L1lres = 3.8
727._at: etot = 2.7
          L1lres = 3.9
728._at: etot = 2.7
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729._at: etot = 2.7
          L1lres = 4.1
730._at: etot = 2.7
          L1lres = 4.2
731._at: etot = 2.7
          L1lres = 4.3
732._at: etot = 2.7
          L1lres = 4.4
733._at: etot = 2.7
          L1lres = 4.5
734._at: etot = 2.7
          L1lres = 4.6
735._at: etot = 2.7
          L1lres = 4.7
736._at: etot = 2.7
          L1lres = 4.8
737._at: etot = 2.7
          L1lres = 4.9
738._at: etot = 2.7
          L1lres = 5
739._at: etot = 2.8
          L1lres = 1
740._at: etot = 2.8
          L1lres = 1.1
741._at: etot = 2.8
          L1lres = 1.2
742._at: etot = 2.8
          L1lres = 1.3
743._at: etot = 2.8
          L1lres = 1.4
744._at: etot = 2.8
          L1lres = 1.5
745._at: etot = 2.8
          L1lres = 1.6
746._at: etot = 2.8
```

```
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748._at: etot   = 2.8
          L1lres = 1.9
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751._at: etot   = 2.8
          L1lres = 2.2
752._at: etot   = 2.8
          L1lres = 2.3
753._at: etot   = 2.8
          L1lres = 2.4
754._at: etot   = 2.8
          L1lres = 2.5
755._at: etot   = 2.8
          L1lres = 2.6
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          L1lres = 2.7
757._at: etot   = 2.8
          L1lres = 2.8
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          L1lres = 2.9
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          L1lres = 3.3
763._at: etot   = 2.8
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764._at: etot   = 2.8
          L1lres = 3.5
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          L1lres = 3.6
766._at: etot   = 2.8
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767._at: etot   = 2.8
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          L1lres = 3.9
769._at: etot   = 2.8
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          L1lres = 4.1
771._at: etot   = 2.8
          L1lres = 4.2
772._at: etot   = 2.8
          L1lres = 4.3
773._at: etot   = 2.8
          L1lres = 4.4
774._at: etot   = 2.8
          L1lres = 4.5
775._at: etot   = 2.8
          L1lres = 4.6
776._at: etot   = 2.8
          L1lres = 4.7
777._at: etot   = 2.8
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778._at: etot   = 2.8
          L1lres = 4.9
779._at: etot   = 2.8
          L1lres = 5
780._at: etot   = 2.9
          L1lres = 1
781._at: etot   = 2.9
          L1lres = 1.1
782._at: etot   = 2.9
          L1lres = 1.2
```

```
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784._at: etot = 2.9  
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785._at: etot = 2.9  
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786._at: etot = 2.9  
          L1lres = 1.6  
787._at: etot = 2.9  
          L1lres = 1.7  
788._at: etot = 2.9  
          L1lres = 1.8  
789._at: etot = 2.9  
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790._at: etot = 2.9  
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791._at: etot = 2.9  
          L1lres = 2.1  
792._at: etot = 2.9  
          L1lres = 2.2  
793._at: etot = 2.9  
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794._at: etot = 2.9  
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795._at: etot = 2.9  
          L1lres = 2.5  
796._at: etot = 2.9  
          L1lres = 2.6  
797._at: etot = 2.9  
          L1lres = 2.7  
798._at: etot = 2.9  
          L1lres = 2.8  
799._at: etot = 2.9  
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801._at: etot = 2.9  
          L1lres = 3.1  
802._at: etot = 2.9  
          L1lres = 3.2  
803._at: etot = 2.9  
          L1lres = 3.3  
804._at: etot = 2.9  
          L1lres = 3.4  
805._at: etot = 2.9  
          L1lres = 3.5  
806._at: etot = 2.9  
          L1lres = 3.6  
807._at: etot = 2.9  
          L1lres = 3.7  
808._at: etot = 2.9  
          L1lres = 3.8  
809._at: etot = 2.9  
          L1lres = 3.9  
810._at: etot = 2.9  
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811._at: etot = 2.9  
          L1lres = 4.1  
812._at: etot = 2.9  
          L1lres = 4.2  
813._at: etot = 2.9  
          L1lres = 4.3  
814._at: etot = 2.9  
          L1lres = 4.4  
815._at: etot = 2.9  
          L1lres = 4.5  
816._at: etot = 2.9  
          L1lres = 4.6  
817._at: etot = 2.9  
          L1lres = 4.7  
818._at: etot = 2.9  
          L1lres = 4.8  
819._at: etot = 2.9
```

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821._at: etot   = 3
           L1lres = 1
822._at: etot   = 3
           L1lres = 1.1
823._at: etot   = 3
           L1lres = 1.2
824._at: etot   = 3
           L1lres = 1.3
825._at: etot   = 3
           L1lres = 1.4
826._at: etot   = 3
           L1lres = 1.5
827._at: etot   = 3
           L1lres = 1.6
828._at: etot   = 3
           L1lres = 1.7
829._at: etot   = 3
           L1lres = 1.8
830._at: etot   = 3
           L1lres = 1.9
831._at: etot   = 3
           L1lres = 2
832._at: etot   = 3
           L1lres = 2.1
833._at: etot   = 3
           L1lres = 2.2
834._at: etot   = 3
           L1lres = 2.3
835._at: etot   = 3
           L1lres = 2.4
836._at: etot   = 3
           L1lres = 2.5
837._at: etot   = 3
           L1lres = 2.6
838._at: etot   = 3
           L1lres = 2.7
839._at: etot   = 3
           L1lres = 2.8
840._at: etot   = 3
           L1lres = 2.9
841._at: etot   = 3
           L1lres = 3
842._at: etot   = 3
           L1lres = 3.1
843._at: etot   = 3
           L1lres = 3.2
844._at: etot   = 3
           L1lres = 3.3
845._at: etot   = 3
           L1lres = 3.4
846._at: etot   = 3
           L1lres = 3.5
847._at: etot   = 3
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848._at: etot   = 3
           L1lres = 3.7
849._at: etot   = 3
           L1lres = 3.8
850._at: etot   = 3
           L1lres = 3.9
851._at: etot   = 3
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852._at: etot   = 3
           L1lres = 4.1
853._at: etot   = 3
           L1lres = 4.2
854._at: etot   = 3
           L1lres = 4.3
855._at: etot   = 3
           L1lres = 4.4
```

```
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857._at: etot = 3  
          L1lres = 4.6  
858._at: etot = 3  
          L1lres = 4.7  
859._at: etot = 3  
          L1lres = 4.8  
860._at: etot = 3  
          L1lres = 4.9  
861._at: etot = 3  
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862._at: etot = 3.1  
          L1lres = 1  
863._at: etot = 3.1  
          L1lres = 1.1  
864._at: etot = 3.1  
          L1lres = 1.2  
865._at: etot = 3.1  
          L1lres = 1.3  
866._at: etot = 3.1  
          L1lres = 1.4  
867._at: etot = 3.1  
          L1lres = 1.5  
868._at: etot = 3.1  
          L1lres = 1.6  
869._at: etot = 3.1  
          L1lres = 1.7  
870._at: etot = 3.1  
          L1lres = 1.8  
871._at: etot = 3.1  
          L1lres = 1.9  
872._at: etot = 3.1  
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873._at: etot = 3.1  
          L1lres = 2.1  
874._at: etot = 3.1  
          L1lres = 2.2  
875._at: etot = 3.1  
          L1lres = 2.3  
876._at: etot = 3.1  
          L1lres = 2.4  
877._at: etot = 3.1  
          L1lres = 2.5  
878._at: etot = 3.1  
          L1lres = 2.6  
879._at: etot = 3.1  
          L1lres = 2.7  
880._at: etot = 3.1  
          L1lres = 2.8  
881._at: etot = 3.1  
          L1lres = 2.9  
882._at: etot = 3.1  
          L1lres = 3  
883._at: etot = 3.1  
          L1lres = 3.1  
884._at: etot = 3.1  
          L1lres = 3.2  
885._at: etot = 3.1  
          L1lres = 3.3  
886._at: etot = 3.1  
          L1lres = 3.4  
887._at: etot = 3.1  
          L1lres = 3.5  
888._at: etot = 3.1  
          L1lres = 3.6  
889._at: etot = 3.1  
          L1lres = 3.7  
890._at: etot = 3.1  
          L1lres = 3.8  
891._at: etot = 3.1  
          L1lres = 3.9  
892._at: etot = 3.1
```

```
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          L1lres = 4.1
894._at: etot   = 3.1
          L1lres = 4.2
895._at: etot   = 3.1
          L1lres = 4.3
896._at: etot   = 3.1
          L1lres = 4.4
897._at: etot   = 3.1
          L1lres = 4.5
898._at: etot   = 3.1
          L1lres = 4.6
899._at: etot   = 3.1
          L1lres = 4.7
900._at: etot   = 3.1
          L1lres = 4.8
901._at: etot   = 3.1
          L1lres = 4.9
902._at: etot   = 3.1
          L1lres =  5
903._at: etot   = 3.2
          L1lres =  1
904._at: etot   = 3.2
          L1lres = 1.1
905._at: etot   = 3.2
          L1lres = 1.2
906._at: etot   = 3.2
          L1lres = 1.3
907._at: etot   = 3.2
          L1lres = 1.4
908._at: etot   = 3.2
          L1lres = 1.5
909._at: etot   = 3.2
          L1lres = 1.6
910._at: etot   = 3.2
          L1lres = 1.7
911._at: etot   = 3.2
          L1lres = 1.8
912._at: etot   = 3.2
          L1lres = 1.9
913._at: etot   = 3.2
          L1lres =  2
914._at: etot   = 3.2
          L1lres = 2.1
915._at: etot   = 3.2
          L1lres = 2.2
916._at: etot   = 3.2
          L1lres = 2.3
917._at: etot   = 3.2
          L1lres = 2.4
918._at: etot   = 3.2
          L1lres = 2.5
919._at: etot   = 3.2
          L1lres = 2.6
920._at: etot   = 3.2
          L1lres = 2.7
921._at: etot   = 3.2
          L1lres = 2.8
922._at: etot   = 3.2
          L1lres = 2.9
923._at: etot   = 3.2
          L1lres =  3
924._at: etot   = 3.2
          L1lres = 3.1
925._at: etot   = 3.2
          L1lres = 3.2
926._at: etot   = 3.2
          L1lres = 3.3
927._at: etot   = 3.2
          L1lres = 3.4
928._at: etot   = 3.2
          L1lres = 3.5
```

```
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         L1lres = 3.6
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         L1lres = 4.9
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945._at: etot = 3.3
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947._at: etot = 3.3
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949._at: etot = 3.3
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952._at: etot = 3.3
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953._at: etot = 3.3
         L1lres = 1.9
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         L1lres = 2
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956._at: etot = 3.3
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957._at: etot = 3.3
         L1lres = 2.3
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         L1lres = 2.8
963._at: etot = 3.3
         L1lres = 2.9
964._at: etot = 3.3
         L1lres = 3
965._at: etot = 3.3
```

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          L1lres = 3.3
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973._at: etot   = 3.3
          L1lres = 3.9
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977._at: etot   = 3.3
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          L1lres = 1.8
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          L1lres = 1.9
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1000._at: etot   = 3.4
          L1lres = 2.5
1001._at: etot   = 3.4
          L1lres = 2.6
```

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1009._at: etot = 3.4
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1013._at: etot = 3.4
          L1lres = 3.8
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1019._at: etot = 3.4
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          L1lres = 4.8
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1032._at: etot = 3.5
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1033._at: etot = 3.5
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1034._at: etot = 3.5
          L1lres = 1.8
1035._at: etot = 3.5
          L1lres = 1.9
1036._at: etot = 3.5
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1037._at: etot = 3.5
          L1lres = 2.1
1038._at: etot = 3.5
```

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1042._at: etot   = 3.5
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1043._at: etot   = 3.5
           L1lres = 2.7
1044._at: etot   = 3.5
           L1lres = 2.8
1045._at: etot   = 3.5
           L1lres = 2.9
1046._at: etot   = 3.5
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1047._at: etot   = 3.5
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1050._at: etot   = 3.5
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1053._at: etot   = 3.5
           L1lres = 3.7
1054._at: etot   = 3.5
           L1lres = 3.8
1055._at: etot   = 3.5
           L1lres = 3.9
1056._at: etot   = 3.5
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1060._at: etot   = 3.5
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1061._at: etot   = 3.5
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1062._at: etot   = 3.5
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1063._at: etot   = 3.5
           L1lres = 4.7
1064._at: etot   = 3.5
           L1lres = 4.8
1065._at: etot   = 3.5
           L1lres = 4.9
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           L1lres = 1.3
1071._at: etot   = 3.6
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1072._at: etot   = 3.6
           L1lres = 1.5
1073._at: etot   = 3.6
           L1lres = 1.6
1074._at: etot   = 3.6
           L1lres = 1.7
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1079._at: etot = 3.6
          L1lres = 2.2
1080._at: etot = 3.6
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1084._at: etot = 3.6
          L1lres = 2.7
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          L1lres = 2.8
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          L1lres = 3.3
1091._at: etot = 3.6
          L1lres = 3.4
1092._at: etot = 3.6
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1093._at: etot = 3.6
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1095._at: etot = 3.6
          L1lres = 3.8
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1099._at: etot = 3.6
          L1lres = 4.2
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          L1lres = 4.4
1102._at: etot = 3.6
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1103._at: etot = 3.6
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1106._at: etot = 3.6
          L1lres = 4.9
1107._at: etot = 3.6
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1108._at: etot = 3.7
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1109._at: etot = 3.7
          L1lres = 1.1
1110._at: etot = 3.7
          L1lres = 1.2
1111._at: etot = 3.7
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           L1lres = 1.6
1115._at: etot   = 3.7
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1116._at: etot   = 3.7
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1117._at: etot   = 3.7
           L1lres = 1.9
1118._at: etot   = 3.7
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1119._at: etot   = 3.7
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1120._at: etot   = 3.7
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1122._at: etot   = 3.7
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1123._at: etot   = 3.7
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1124._at: etot   = 3.7
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1125._at: etot   = 3.7
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1127._at: etot   = 3.7
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1129._at: etot   = 3.7
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           L1lres = 3.2
1131._at: etot   = 3.7
           L1lres = 3.3
1132._at: etot   = 3.7
           L1lres = 3.4
1133._at: etot   = 3.7
           L1lres = 3.5
1134._at: etot   = 3.7
           L1lres = 3.6
1135._at: etot   = 3.7
           L1lres = 3.7
1136._at: etot   = 3.7
           L1lres = 3.8
1137._at: etot   = 3.7
           L1lres = 3.9
1138._at: etot   = 3.7
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           L1lres = 4.2
1141._at: etot   = 3.7
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1143._at: etot   = 3.7
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1145._at: etot   = 3.7
           L1lres = 4.7
1146._at: etot   = 3.7
           L1lres = 4.8
1147._at: etot   = 3.7
           L1lres = 4.9
```

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1150._at: etot = 3.8
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1151._at: etot = 3.8
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1152._at: etot = 3.8
          L1lres = 1.3
1153._at: etot = 3.8
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1154._at: etot = 3.8
          L1lres = 1.5
1155._at: etot = 3.8
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1157._at: etot = 3.8
          L1lres = 1.8
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1160._at: etot = 3.8
          L1lres = 2.1
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1162._at: etot = 3.8
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1163._at: etot = 3.8
          L1lres = 2.4
1164._at: etot = 3.8
          L1lres = 2.5
1165._at: etot = 3.8
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1166._at: etot = 3.8
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1167._at: etot = 3.8
          L1lres = 2.8
1168._at: etot = 3.8
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1170._at: etot = 3.8
          L1lres = 3.1
1171._at: etot = 3.8
          L1lres = 3.2
1172._at: etot = 3.8
          L1lres = 3.3
1173._at: etot = 3.8
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1174._at: etot = 3.8
          L1lres = 3.5
1175._at: etot = 3.8
          L1lres = 3.6
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1182._at: etot = 3.8
          L1lres = 4.3
1183._at: etot = 3.8
          L1lres = 4.4
1184._at: etot = 3.8
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1188._at: etot   = 3.8
           L1lres = 4.9
1189._at: etot   = 3.8
           L1lres = 5
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           L1lres = 1.4
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1197._at: etot   = 3.9
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1198._at: etot   = 3.9
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           L1lres = 2.2
1203._at: etot   = 3.9
           L1lres = 2.3
1204._at: etot   = 3.9
           L1lres = 2.4
1205._at: etot   = 3.9
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           L1lres = 2.9
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           L1lres = 3.8
1219._at: etot   = 3.9
           L1lres = 3.9
1220._at: etot   = 3.9
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           L1lres = 4.3
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           L1lres = 4.9
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1232._at: etot = 4
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1233._at: etot = 4
           L1lres = 1.2
1234._at: etot = 4
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1235._at: etot = 4
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1236._at: etot = 4
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1237._at: etot = 4
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1238._at: etot = 4
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1239._at: etot = 4
           L1lres = 1.8
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           L1lres = 1.9
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1242._at: etot = 4
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1243._at: etot = 4
           L1lres = 2.2
1244._at: etot = 4
           L1lres = 2.3
1245._at: etot = 4
           L1lres = 2.4
1246._at: etot = 4
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1247._at: etot = 4
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1248._at: etot = 4
           L1lres = 2.7
1249._at: etot = 4
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1253._at: etot = 4
           L1lres = 3.2
1254._at: etot = 4
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1255._at: etot = 4
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1256._at: etot = 4
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1257._at: etot = 4
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1270._at: etot   = 4
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1272._at: etot   = 4.1
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1273._at: etot   = 4.1
           L1lres = 1.1
1274._at: etot   = 4.1
           L1lres = 1.2
1275._at: etot   = 4.1
           L1lres = 1.3
1276._at: etot   = 4.1
           L1lres = 1.4
1277._at: etot   = 4.1
           L1lres = 1.5
1278._at: etot   = 4.1
           L1lres = 1.6
1279._at: etot   = 4.1
           L1lres = 1.7
1280._at: etot   = 4.1
           L1lres = 1.8
1281._at: etot   = 4.1
           L1lres = 1.9
1282._at: etot   = 4.1
           L1lres = 2
1283._at: etot   = 4.1
           L1lres = 2.1
1284._at: etot   = 4.1
           L1lres = 2.2
1285._at: etot   = 4.1
           L1lres = 2.3
1286._at: etot   = 4.1
           L1lres = 2.4
1287._at: etot   = 4.1
           L1lres = 2.5
1288._at: etot   = 4.1
           L1lres = 2.6
1289._at: etot   = 4.1
           L1lres = 2.7
1290._at: etot   = 4.1
           L1lres = 2.8
1291._at: etot   = 4.1
           L1lres = 2.9
1292._at: etot   = 4.1
           L1lres = 3
1293._at: etot   = 4.1
           L1lres = 3.1
```

```
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1295._at: etot = 4.1
          L1lres = 3.3
1296._at: etot = 4.1
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1297._at: etot = 4.1
          L1lres = 3.5
1298._at: etot = 4.1
          L1lres = 3.6
1299._at: etot = 4.1
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          L1lres = 3.8
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1303._at: etot = 4.1
          L1lres = 4.1
1304._at: etot = 4.1
          L1lres = 4.2
1305._at: etot = 4.1
          L1lres = 4.3
1306._at: etot = 4.1
          L1lres = 4.4
1307._at: etot = 4.1
          L1lres = 4.5
1308._at: etot = 4.1
          L1lres = 4.6
1309._at: etot = 4.1
          L1lres = 4.7
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1312._at: etot = 4.1
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          L1lres = 1.3
1317._at: etot = 4.2
          L1lres = 1.4
1318._at: etot = 4.2
          L1lres = 1.5
1319._at: etot = 4.2
          L1lres = 1.6
1320._at: etot = 4.2
          L1lres = 1.7
1321._at: etot = 4.2
          L1lres = 1.8
1322._at: etot = 4.2
          L1lres = 1.9
1323._at: etot = 4.2
          L1lres = 2
1324._at: etot = 4.2
          L1lres = 2.1
1325._at: etot = 4.2
          L1lres = 2.2
1326._at: etot = 4.2
          L1lres = 2.3
1327._at: etot = 4.2
          L1lres = 2.4
1328._at: etot = 4.2
          L1lres = 2.5
1329._at: etot = 4.2
          L1lres = 2.6
1330._at: etot = 4.2
```

```
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1332._at: etot   = 4.2
           L1lres = 2.9
1333._at: etot   = 4.2
           L1lres = 3
1334._at: etot   = 4.2
           L1lres = 3.1
1335._at: etot   = 4.2
           L1lres = 3.2
1336._at: etot   = 4.2
           L1lres = 3.3
1337._at: etot   = 4.2
           L1lres = 3.4
1338._at: etot   = 4.2
           L1lres = 3.5
1339._at: etot   = 4.2
           L1lres = 3.6
1340._at: etot   = 4.2
           L1lres = 3.7
1341._at: etot   = 4.2
           L1lres = 3.8
1342._at: etot   = 4.2
           L1lres = 3.9
1343._at: etot   = 4.2
           L1lres = 4
1344._at: etot   = 4.2
           L1lres = 4.1
1345._at: etot   = 4.2
           L1lres = 4.2
1346._at: etot   = 4.2
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1347._at: etot   = 4.2
           L1lres = 4.4
1348._at: etot   = 4.2
           L1lres = 4.5
1349._at: etot   = 4.2
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           L1lres = 4.7
1351._at: etot   = 4.2
           L1lres = 4.8
1352._at: etot   = 4.2
           L1lres = 4.9
1353._at: etot   = 4.2
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1354._at: etot   = 4.3
           L1lres = 1
1355._at: etot   = 4.3
           L1lres = 1.1
1356._at: etot   = 4.3
           L1lres = 1.2
1357._at: etot   = 4.3
           L1lres = 1.3
1358._at: etot   = 4.3
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1359._at: etot   = 4.3
           L1lres = 1.5
1360._at: etot   = 4.3
           L1lres = 1.6
1361._at: etot   = 4.3
           L1lres = 1.7
1362._at: etot   = 4.3
           L1lres = 1.8
1363._at: etot   = 4.3
           L1lres = 1.9
1364._at: etot   = 4.3
           L1lres = 2
1365._at: etot   = 4.3
           L1lres = 2.1
1366._at: etot   = 4.3
           L1lres = 2.2
```

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1369._at: etot = 4.3
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1371._at: etot = 4.3
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          L1lres = 2.9
1374._at: etot = 4.3
          L1lres = 3
1375._at: etot = 4.3
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1376._at: etot = 4.3
          L1lres = 3.2
1377._at: etot = 4.3
          L1lres = 3.3
1378._at: etot = 4.3
          L1lres = 3.4
1379._at: etot = 4.3
          L1lres = 3.5
1380._at: etot = 4.3
          L1lres = 3.6
1381._at: etot = 4.3
          L1lres = 3.7
1382._at: etot = 4.3
          L1lres = 3.8
1383._at: etot = 4.3
          L1lres = 3.9
1384._at: etot = 4.3
          L1lres = 4
1385._at: etot = 4.3
          L1lres = 4.1
1386._at: etot = 4.3
          L1lres = 4.2
1387._at: etot = 4.3
          L1lres = 4.3
1388._at: etot = 4.3
          L1lres = 4.4
1389._at: etot = 4.3
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          L1lres = 4.6
1391._at: etot = 4.3
          L1lres = 4.7
1392._at: etot = 4.3
          L1lres = 4.8
1393._at: etot = 4.3
          L1lres = 4.9
1394._at: etot = 4.3
          L1lres = 5
1395._at: etot = 4.4
          L1lres = 1
1396._at: etot = 4.4
          L1lres = 1.1
1397._at: etot = 4.4
          L1lres = 1.2
1398._at: etot = 4.4
          L1lres = 1.3
1399._at: etot = 4.4
          L1lres = 1.4
1400._at: etot = 4.4
          L1lres = 1.5
1401._at: etot = 4.4
          L1lres = 1.6
1402._at: etot = 4.4
          L1lres = 1.7
1403._at: etot = 4.4
```

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1406._at: etot   = 4.4
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1407._at: etot   = 4.4
           L1lres = 2.2
1408._at: etot   = 4.4
           L1lres = 2.3
1409._at: etot   = 4.4
           L1lres = 2.4
1410._at: etot   = 4.4
           L1lres = 2.5
1411._at: etot   = 4.4
           L1lres = 2.6
1412._at: etot   = 4.4
           L1lres = 2.7
1413._at: etot   = 4.4
           L1lres = 2.8
1414._at: etot   = 4.4
           L1lres = 2.9
1415._at: etot   = 4.4
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1416._at: etot   = 4.4
           L1lres = 3.1
1417._at: etot   = 4.4
           L1lres = 3.2
1418._at: etot   = 4.4
           L1lres = 3.3
1419._at: etot   = 4.4
           L1lres = 3.4
1420._at: etot   = 4.4
           L1lres = 3.5
1421._at: etot   = 4.4
           L1lres = 3.6
1422._at: etot   = 4.4
           L1lres = 3.7
1423._at: etot   = 4.4
           L1lres = 3.8
1424._at: etot   = 4.4
           L1lres = 3.9
1425._at: etot   = 4.4
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1426._at: etot   = 4.4
           L1lres = 4.1
1427._at: etot   = 4.4
           L1lres = 4.2
1428._at: etot   = 4.4
           L1lres = 4.3
1429._at: etot   = 4.4
           L1lres = 4.4
1430._at: etot   = 4.4
           L1lres = 4.5
1431._at: etot   = 4.4
           L1lres = 4.6
1432._at: etot   = 4.4
           L1lres = 4.7
1433._at: etot   = 4.4
           L1lres = 4.8
1434._at: etot   = 4.4
           L1lres = 4.9
1435._at: etot   = 4.4
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1436._at: etot   = 4.5
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1437._at: etot   = 4.5
           L1lres = 1.1
1438._at: etot   = 4.5
           L1lres = 1.2
1439._at: etot   = 4.5
           L1lres = 1.3
```

```
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1441._at: etot = 4.5
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1442._at: etot = 4.5
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1443._at: etot = 4.5
           L1lres = 1.7
1444._at: etot = 4.5
           L1lres = 1.8
1445._at: etot = 4.5
           L1lres = 1.9
1446._at: etot = 4.5
           L1lres = 2
1447._at: etot = 4.5
           L1lres = 2.1
1448._at: etot = 4.5
           L1lres = 2.2
1449._at: etot = 4.5
           L1lres = 2.3
1450._at: etot = 4.5
           L1lres = 2.4
1451._at: etot = 4.5
           L1lres = 2.5
1452._at: etot = 4.5
           L1lres = 2.6
1453._at: etot = 4.5
           L1lres = 2.7
1454._at: etot = 4.5
           L1lres = 2.8
1455._at: etot = 4.5
           L1lres = 2.9
1456._at: etot = 4.5
           L1lres = 3
1457._at: etot = 4.5
           L1lres = 3.1
1458._at: etot = 4.5
           L1lres = 3.2
1459._at: etot = 4.5
           L1lres = 3.3
1460._at: etot = 4.5
           L1lres = 3.4
1461._at: etot = 4.5
           L1lres = 3.5
1462._at: etot = 4.5
           L1lres = 3.6
1463._at: etot = 4.5
           L1lres = 3.7
1464._at: etot = 4.5
           L1lres = 3.8
1465._at: etot = 4.5
           L1lres = 3.9
1466._at: etot = 4.5
           L1lres = 4
1467._at: etot = 4.5
           L1lres = 4.1
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1470._at: etot = 4.5
           L1lres = 4.4
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           L1lres = 4.6
1473._at: etot = 4.5
           L1lres = 4.7
1474._at: etot = 4.5
           L1lres = 4.8
1475._at: etot = 4.5
           L1lres = 4.9
1476._at: etot = 4.5
```

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1478._at: etot = 4.6
    L1lres = 1.1
1479._at: etot = 4.6
    L1lres = 1.2
1480._at: etot = 4.6
    L1lres = 1.3
1481._at: etot = 4.6
    L1lres = 1.4
1482._at: etot = 4.6
    L1lres = 1.5
1483._at: etot = 4.6
    L1lres = 1.6
1484._at: etot = 4.6
    L1lres = 1.7
1485._at: etot = 4.6
    L1lres = 1.8
1486._at: etot = 4.6
    L1lres = 1.9
1487._at: etot = 4.6
    L1lres = 2
1488._at: etot = 4.6
    L1lres = 2.1
1489._at: etot = 4.6
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1490._at: etot = 4.6
    L1lres = 2.3
1491._at: etot = 4.6
    L1lres = 2.4
1492._at: etot = 4.6
    L1lres = 2.5
1493._at: etot = 4.6
    L1lres = 2.6
1494._at: etot = 4.6
    L1lres = 2.7
1495._at: etot = 4.6
    L1lres = 2.8
1496._at: etot = 4.6
    L1lres = 2.9
1497._at: etot = 4.6
    L1lres = 3
1498._at: etot = 4.6
    L1lres = 3.1
1499._at: etot = 4.6
    L1lres = 3.2
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    L1lres = 3.3
1501._at: etot = 4.6
    L1lres = 3.4
1502._at: etot = 4.6
    L1lres = 3.5
1503._at: etot = 4.6
    L1lres = 3.6
1504._at: etot = 4.6
    L1lres = 3.7
1505._at: etot = 4.6
    L1lres = 3.8
1506._at: etot = 4.6
    L1lres = 3.9
1507._at: etot = 4.6
    L1lres = 4
1508._at: etot = 4.6
    L1lres = 4.1
1509._at: etot = 4.6
    L1lres = 4.2
1510._at: etot = 4.6
    L1lres = 4.3
1511._at: etot = 4.6
    L1lres = 4.4
1512._at: etot = 4.6
    L1lres = 4.5
```

```
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1514._at: etot = 4.6
          L1lres = 4.7
1515._at: etot = 4.6
          L1lres = 4.8
1516._at: etot = 4.6
          L1lres = 4.9
1517._at: etot = 4.6
          L1lres = 5
1518._at: etot = 4.7
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1519._at: etot = 4.7
          L1lres = 1.1
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          L1lres = 1.3
1522._at: etot = 4.7
          L1lres = 1.4
1523._at: etot = 4.7
          L1lres = 1.5
1524._at: etot = 4.7
          L1lres = 1.6
1525._at: etot = 4.7
          L1lres = 1.7
1526._at: etot = 4.7
          L1lres = 1.8
1527._at: etot = 4.7
          L1lres = 1.9
1528._at: etot = 4.7
          L1lres = 2
1529._at: etot = 4.7
          L1lres = 2.1
1530._at: etot = 4.7
          L1lres = 2.2
1531._at: etot = 4.7
          L1lres = 2.3
1532._at: etot = 4.7
          L1lres = 2.4
1533._at: etot = 4.7
          L1lres = 2.5
1534._at: etot = 4.7
          L1lres = 2.6
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          L1lres = 2.7
1536._at: etot = 4.7
          L1lres = 2.8
1537._at: etot = 4.7
          L1lres = 2.9
1538._at: etot = 4.7
          L1lres = 3
1539._at: etot = 4.7
          L1lres = 3.1
1540._at: etot = 4.7
          L1lres = 3.2
1541._at: etot = 4.7
          L1lres = 3.3
1542._at: etot = 4.7
          L1lres = 3.4
1543._at: etot = 4.7
          L1lres = 3.5
1544._at: etot = 4.7
          L1lres = 3.6
1545._at: etot = 4.7
          L1lres = 3.7
1546._at: etot = 4.7
          L1lres = 3.8
1547._at: etot = 4.7
          L1lres = 3.9
1548._at: etot = 4.7
          L1lres = 4
1549._at: etot = 4.7
```

```
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1551._at: etot   = 4.7
           L1lres = 4.3
1552._at: etot   = 4.7
           L1lres = 4.4
1553._at: etot   = 4.7
           L1lres = 4.5
1554._at: etot   = 4.7
           L1lres = 4.6
1555._at: etot   = 4.7
           L1lres = 4.7
1556._at: etot   = 4.7
           L1lres = 4.8
1557._at: etot   = 4.7
           L1lres = 4.9
1558._at: etot   = 4.7
           L1lres = 5
1559._at: etot   = 4.8
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1561._at: etot   = 4.8
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1562._at: etot   = 4.8
           L1lres = 1.3
1563._at: etot   = 4.8
           L1lres = 1.4
1564._at: etot   = 4.8
           L1lres = 1.5
1565._at: etot   = 4.8
           L1lres = 1.6
1566._at: etot   = 4.8
           L1lres = 1.7
1567._at: etot   = 4.8
           L1lres = 1.8
1568._at: etot   = 4.8
           L1lres = 1.9
1569._at: etot   = 4.8
           L1lres = 2
1570._at: etot   = 4.8
           L1lres = 2.1
1571._at: etot   = 4.8
           L1lres = 2.2
1572._at: etot   = 4.8
           L1lres = 2.3
1573._at: etot   = 4.8
           L1lres = 2.4
1574._at: etot   = 4.8
           L1lres = 2.5
1575._at: etot   = 4.8
           L1lres = 2.6
1576._at: etot   = 4.8
           L1lres = 2.7
1577._at: etot   = 4.8
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           L1lres = 2.9
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           L1lres = 3.1
1581._at: etot   = 4.8
           L1lres = 3.2
1582._at: etot   = 4.8
           L1lres = 3.3
1583._at: etot   = 4.8
           L1lres = 3.4
1584._at: etot   = 4.8
           L1lres = 3.5
1585._at: etot   = 4.8
           L1lres = 3.6
```

```
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1587._at: etot = 4.8
          L1lres = 3.8
1588._at: etot = 4.8
          L1lres = 3.9
1589._at: etot = 4.8
          L1lres = 4
1590._at: etot = 4.8
          L1lres = 4.1
1591._at: etot = 4.8
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1592._at: etot = 4.8
          L1lres = 4.3
1593._at: etot = 4.8
          L1lres = 4.4
1594._at: etot = 4.8
          L1lres = 4.5
1595._at: etot = 4.8
          L1lres = 4.6
1596._at: etot = 4.8
          L1lres = 4.7
1597._at: etot = 4.8
          L1lres = 4.8
1598._at: etot = 4.8
          L1lres = 4.9
1599._at: etot = 4.8
          L1lres = 5
1600._at: etot = 4.9
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1601._at: etot = 4.9
          L1lres = 1.1
1602._at: etot = 4.9
          L1lres = 1.2
1603._at: etot = 4.9
          L1lres = 1.3
1604._at: etot = 4.9
          L1lres = 1.4
1605._at: etot = 4.9
          L1lres = 1.5
1606._at: etot = 4.9
          L1lres = 1.6
1607._at: etot = 4.9
          L1lres = 1.7
1608._at: etot = 4.9
          L1lres = 1.8
1609._at: etot = 4.9
          L1lres = 1.9
1610._at: etot = 4.9
          L1lres = 2
1611._at: etot = 4.9
          L1lres = 2.1
1612._at: etot = 4.9
          L1lres = 2.2
1613._at: etot = 4.9
          L1lres = 2.3
1614._at: etot = 4.9
          L1lres = 2.4
1615._at: etot = 4.9
          L1lres = 2.5
1616._at: etot = 4.9
          L1lres = 2.6
1617._at: etot = 4.9
          L1lres = 2.7
1618._at: etot = 4.9
          L1lres = 2.8
1619._at: etot = 4.9
          L1lres = 2.9
1620._at: etot = 4.9
          L1lres = 3
1621._at: etot = 4.9
          L1lres = 3.1
1622._at: etot = 4.9
```

```
L1lres = 3.2
1623._at: etot   = 4.9
    L1lres = 3.3
1624._at: etot   = 4.9
    L1lres = 3.4
1625._at: etot   = 4.9
    L1lres = 3.5
1626._at: etot   = 4.9
    L1lres = 3.6
1627._at: etot   = 4.9
    L1lres = 3.7
1628._at: etot   = 4.9
    L1lres = 3.8
1629._at: etot   = 4.9
    L1lres = 3.9
1630._at: etot   = 4.9
    L1lres = 4
1631._at: etot   = 4.9
    L1lres = 4.1
1632._at: etot   = 4.9
    L1lres = 4.2
1633._at: etot   = 4.9
    L1lres = 4.3
1634._at: etot   = 4.9
    L1lres = 4.4
1635._at: etot   = 4.9
    L1lres = 4.5
1636._at: etot   = 4.9
    L1lres = 4.6
1637._at: etot   = 4.9
    L1lres = 4.7
1638._at: etot   = 4.9
    L1lres = 4.8
1639._at: etot   = 4.9
    L1lres = 4.9
1640._at: etot   = 4.9
    L1lres = 5
1641._at: etot   = 5
    L1lres = 1
1642._at: etot   = 5
    L1lres = 1.1
1643._at: etot   = 5
    L1lres = 1.2
1644._at: etot   = 5
    L1lres = 1.3
1645._at: etot   = 5
    L1lres = 1.4
1646._at: etot   = 5
    L1lres = 1.5
1647._at: etot   = 5
    L1lres = 1.6
1648._at: etot   = 5
    L1lres = 1.7
1649._at: etot   = 5
    L1lres = 1.8
1650._at: etot   = 5
    L1lres = 1.9
1651._at: etot   = 5
    L1lres = 2
1652._at: etot   = 5
    L1lres = 2.1
1653._at: etot   = 5
    L1lres = 2.2
1654._at: etot   = 5
    L1lres = 2.3
1655._at: etot   = 5
    L1lres = 2.4
1656._at: etot   = 5
    L1lres = 2.5
1657._at: etot   = 5
    L1lres = 2.6
1658._at: etot   = 5
    L1lres = 2.7
```

```

1659._at: etot = 5
    L1lres = 2.8
1660._at: etot = 5
    L1lres = 2.9
1661._at: etot = 5
    L1lres = 3
1662._at: etot = 5
    L1lres = 3.1
1663._at: etot = 5
    L1lres = 3.2
1664._at: etot = 5
    L1lres = 3.3
1665._at: etot = 5
    L1lres = 3.4
1666._at: etot = 5
    L1lres = 3.5
1667._at: etot = 5
    L1lres = 3.6
1668._at: etot = 5
    L1lres = 3.7
1669._at: etot = 5
    L1lres = 3.8
1670._at: etot = 5
    L1lres = 3.9
1671._at: etot = 5
    L1lres = 4
1672._at: etot = 5
    L1lres = 4.1
1673._at: etot = 5
    L1lres = 4.2
1674._at: etot = 5
    L1lres = 4.3
1675._at: etot = 5
    L1lres = 4.4
1676._at: etot = 5
    L1lres = 4.5
1677._at: etot = 5
    L1lres = 4.6
1678._at: etot = 5
    L1lres = 4.7
1679._at: etot = 5
    L1lres = 4.8
1680._at: etot = 5
    L1lres = 4.9
1681._at: etot = 5
    L1lres = 5

```

	Delta-method					
	Margin	std. err.	z	P> z	[95% conf. interval]	
_at						
1	4.624666	.0146914	314.79	0.000	4.595871	4.65346
2	4.624017	.0141463	326.87	0.000	4.596291	4.651743
3	4.623369	.0136257	339.31	0.000	4.596663	4.650075
4	4.62272	.0131325	352.01	0.000	4.596981	4.64846
5	4.622072	.0126698	364.81	0.000	4.59724	4.646904
6	4.621424	.0122411	377.53	0.000	4.597432	4.645416
7	4.620775	.0118502	389.93	0.000	4.597549	4.644001
8	4.620127	.0115009	401.72	0.000	4.597586	4.642668
9	4.619479	.011197	412.56	0.000	4.597533	4.641425
10	4.61883	.0109424	422.10	0.000	4.597384	4.640277
11	4.618182	.0107406	429.98	0.000	4.597131	4.639233
12	4.617534	.0105945	435.84	0.000	4.596769	4.638299
13	4.616885	.0105065	439.43	0.000	4.596293	4.637478
14	4.616237	.0104781	440.56	0.000	4.5957	4.636774
15	4.615589	.0105098	439.17	0.000	4.59499	4.636187
16	4.61494	.0106009	435.33	0.000	4.594163	4.635718
17	4.614292	.0107501	429.23	0.000	4.593222	4.635362
18	4.613644	.0109549	421.15	0.000	4.592172	4.635115
19	4.612995	.0112123	411.42	0.000	4.59102	4.634971
20	4.612347	.0115187	400.42	0.000	4.589771	4.634923
21	4.611699	.0118704	388.50	0.000	4.588433	4.634964

22	4.61105	.0122634	376.00	0.000	4.587014	4.635086
23	4.610402	.012694	363.19	0.000	4.585522	4.635282
24	4.609754	.0131585	350.33	0.000	4.583964	4.635544
25	4.609105	.0136533	337.58	0.000	4.582345	4.635865
26	4.608457	.0141753	325.10	0.000	4.580674	4.63624
27	4.607809	.0147216	313.00	0.000	4.578955	4.636662
28	4.60716	.0152897	301.33	0.000	4.577193	4.637127
29	4.606512	.0158771	290.14	0.000	4.575393	4.63763
30	4.605864	.0164818	279.45	0.000	4.57356	4.638167
31	4.605215	.017102	269.28	0.000	4.571696	4.638734
32	4.604567	.017736	259.62	0.000	4.569805	4.639329
33	4.603919	.0183825	250.45	0.000	4.56789	4.639947
34	4.60327	.0190401	241.77	0.000	4.565952	4.640588
35	4.602622	.0197077	233.54	0.000	4.563995	4.641248
36	4.601973	.0203844	225.76	0.000	4.562021	4.641926
37	4.601325	.0210692	218.39	0.000	4.56003	4.64262
38	4.600677	.0217615	211.41	0.000	4.558025	4.643329
39	4.600028	.0224605	204.81	0.000	4.556007	4.64405
40	4.59938	.0231656	198.54	0.000	4.553976	4.644784
41	4.598732	.0238762	192.61	0.000	4.551935	4.645528
42	4.624633	.014994	308.43	0.000	4.595246	4.654021
43	4.623879	.0144339	320.35	0.000	4.595589	4.652169
44	4.623124	.0138985	332.64	0.000	4.595883	4.650364
45	4.622369	.0133907	345.19	0.000	4.596124	4.648614
46	4.621614	.0129139	357.88	0.000	4.596304	4.646925
47	4.62086	.0124717	370.51	0.000	4.596416	4.645304
48	4.620105	.0120677	382.85	0.000	4.596453	4.643757
49	4.61935	.0117059	394.62	0.000	4.596407	4.642293
50	4.618595	.0113905	405.48	0.000	4.59627	4.64092
51	4.617841	.0111252	415.08	0.000	4.596036	4.639646
52	4.617086	.0109139	423.05	0.000	4.595695	4.638477
53	4.616331	.0107596	429.04	0.000	4.595243	4.637419
54	4.615576	.0106648	432.78	0.000	4.594674	4.636479
55	4.614822	.0106312	434.08	0.000	4.593985	4.635658
56	4.614067	.0106593	432.87	0.000	4.593175	4.634959
57	4.613312	.0107486	429.20	0.000	4.592245	4.634379
58	4.612557	.0108976	423.26	0.000	4.591198	4.633916
59	4.611802	.011104	415.33	0.000	4.590039	4.633566
60	4.611048	.0113645	405.74	0.000	4.588774	4.633322
61	4.610293	.0116756	394.87	0.000	4.587409	4.633177
62	4.609538	.0120333	383.06	0.000	4.585953	4.633123
63	4.608783	.0124337	370.67	0.000	4.584414	4.633153
64	4.608029	.0128727	357.97	0.000	4.582799	4.633259
65	4.607274	.0133465	345.20	0.000	4.581115	4.633433
66	4.606519	.0138516	332.56	0.000	4.57937	4.633668
67	4.605764	.0143847	320.19	0.000	4.577571	4.633958
68	4.60501	.0149427	308.18	0.000	4.575722	4.634297
69	4.604255	.015523	296.61	0.000	4.57383	4.634679
70	4.6035	.0161232	285.52	0.000	4.571899	4.635101
71	4.602745	.0167411	274.94	0.000	4.569933	4.635557
72	4.601991	.0173749	264.87	0.000	4.567937	4.636045
73	4.601236	.0180228	255.30	0.000	4.565912	4.63656
74	4.600481	.0186834	246.23	0.000	4.563862	4.6371
75	4.599726	.0193554	237.65	0.000	4.56179	4.637662
76	4.598972	.0200377	229.52	0.000	4.559698	4.638245
77	4.598217	.0207292	221.82	0.000	4.557588	4.638845
78	4.597462	.0214291	214.54	0.000	4.555462	4.639462
79	4.596707	.0221365	207.65	0.000	4.553321	4.640094
80	4.595952	.0228508	201.13	0.000	4.551166	4.640739
81	4.595198	.0235713	194.95	0.000	4.548999	4.641397
82	4.594443	.0242974	189.09	0.000	4.546821	4.642065
83	4.624601	.0153381	301.51	0.000	4.594539	4.654663
84	4.62374	.0147608	313.25	0.000	4.59481	4.652671
85	4.622879	.0142084	325.36	0.000	4.595031	4.650727
86	4.622018	.013684	337.77	0.000	4.595198	4.648838
87	4.621157	.0131909	350.33	0.000	4.595303	4.64701
88	4.620295	.0127328	362.87	0.000	4.59534	4.645251
89	4.619434	.0123135	375.15	0.000	4.5953	4.643568
90	4.618573	.0119371	386.91	0.000	4.595177	4.641969
91	4.617712	.0116079	397.81	0.000	4.594961	4.640463
92	4.616851	.0113299	407.49	0.000	4.594645	4.639057
93	4.61599	.0111069	415.60	0.000	4.59422	4.637759
94	4.615128	.0109424	421.77	0.000	4.593682	4.636575

95	4.614267	.010839	425.71	0.000	4.593023	4.635511
96	4.613406	.0107985	427.23	0.000	4.592241	4.634571
97	4.612545	.0108215	426.24	0.000	4.591335	4.633755
98	4.611684	.0109076	422.79	0.000	4.590305	4.633062
99	4.610822	.0110555	417.06	0.000	4.589154	4.632491
100	4.609961	.0112626	409.32	0.000	4.587887	4.632036
101	4.6091	.0115258	399.89	0.000	4.58651	4.63169
102	4.608239	.0118413	389.17	0.000	4.58503	4.631447
103	4.607378	.0122051	377.50	0.000	4.583456	4.631299
104	4.606517	.0126129	365.22	0.000	4.581796	4.631237
105	4.605655	.0130607	352.63	0.000	4.580057	4.631254
106	4.604794	.0135445	339.97	0.000	4.578247	4.631341
107	4.603933	.0140606	327.43	0.000	4.576375	4.631491
108	4.603072	.0146056	315.16	0.000	4.574445	4.631698
109	4.602211	.0151763	303.25	0.000	4.572466	4.631956
110	4.601349	.01577	291.78	0.000	4.570441	4.632258
111	4.600488	.0163841	280.79	0.000	4.568376	4.632601
112	4.599627	.0170165	270.30	0.000	4.566275	4.632979
113	4.598766	.0176651	260.33	0.000	4.564143	4.633389
114	4.597905	.0183283	250.86	0.000	4.561982	4.633828
115	4.597044	.0190046	241.89	0.000	4.559795	4.634292
116	4.596182	.0196925	233.40	0.000	4.557586	4.634779
117	4.595321	.020391	225.36	0.000	4.555356	4.635287
118	4.59446	.0210989	217.76	0.000	4.553107	4.635813
119	4.593599	.0218153	210.57	0.000	4.550842	4.636356
120	4.592738	.0225395	203.76	0.000	4.548561	4.636914
121	4.591877	.0232707	197.32	0.000	4.546267	4.637486
122	4.591015	.0240083	191.23	0.000	4.54396	4.638071
123	4.590154	.0247516	185.45	0.000	4.541642	4.638666
124	4.624569	.0157209	294.17	0.000	4.593757	4.655382
125	4.623602	.0151245	305.70	0.000	4.593958	4.653245
126	4.622634	.0145532	317.64	0.000	4.59411	4.651158
127	4.621666	.0140101	329.88	0.000	4.594207	4.649126
128	4.620699	.0134987	342.31	0.000	4.594242	4.647156
129	4.619731	.0130227	354.75	0.000	4.594207	4.645255
130	4.618764	.012586	366.98	0.000	4.594096	4.643432
131	4.617796	.012193	378.73	0.000	4.593898	4.641694
132	4.616828	.0118479	389.67	0.000	4.593607	4.64005
133	4.615861	.0115551	399.47	0.000	4.593213	4.638508
134	4.614893	.0113186	407.73	0.000	4.592709	4.637077
135	4.613926	.0111142	414.10	0.000	4.592088	4.635764
136	4.612958	.0110282	418.29	0.000	4.591343	4.634573
137	4.611991	.0109792	420.07	0.000	4.590472	4.633509
138	4.611023	.0109957	419.35	0.000	4.589472	4.632574
139	4.610055	.0110775	416.16	0.000	4.588344	4.631767
140	4.609988	.0112232	410.67	0.000	4.587091	4.631085
141	4.60812	.0114304	403.15	0.000	4.585717	4.630523
142	4.607153	.0116957	393.92	0.000	4.584229	4.630076
143	4.606185	.0120154	383.36	0.000	4.582635	4.629735
144	4.605217	.0123851	371.83	0.000	4.580943	4.629492
145	4.60425	.0128007	359.69	0.000	4.579161	4.629339
146	4.603282	.0132577	347.22	0.000	4.577298	4.629267
147	4.602315	.013752	334.66	0.000	4.575361	4.629268
148	4.601347	.0142798	322.23	0.000	4.573359	4.629335
149	4.600379	.0148375	310.05	0.000	4.571298	4.62946
150	4.599412	.0154218	298.24	0.000	4.569185	4.629638
151	4.598444	.0160299	286.87	0.000	4.567026	4.629862
152	4.597477	.0166591	275.97	0.000	4.564825	4.630128
153	4.596509	.0173071	265.58	0.000	4.562588	4.63043
154	4.595541	.017972	255.71	0.000	4.560317	4.630766
155	4.594574	.0186518	246.33	0.000	4.558017	4.631131
156	4.593606	.019345	237.46	0.000	4.555691	4.631522
157	4.592639	.0200503	229.06	0.000	4.553341	4.631936
158	4.591671	.0207663	221.11	0.000	4.55097	4.632372
159	4.590703	.0214921	213.60	0.000	4.54858	4.632827
160	4.589736	.0222266	206.50	0.000	4.546172	4.633299
161	4.588768	.0229691	199.78	0.000	4.54375	4.633787
162	4.587801	.0237188	193.42	0.000	4.541313	4.634288
163	4.586833	.0244749	187.41	0.000	4.538863	4.634803
164	4.585865	.0252371	181.71	0.000	4.536402	4.635329
165	4.624537	.0161398	286.53	0.000	4.592904	4.656171
166	4.623463	.0155224	297.86	0.000	4.59304	4.653887
167	4.622389	.0149304	309.60	0.000	4.593126	4.651652

168	4.621315	.0143668	321.67	0.000	4.593157	4.649474
169	4.620241	.0138353	333.95	0.000	4.593125	4.647358
170	4.619167	.0133395	346.28	0.000	4.593022	4.645312
171	4.618093	.0128836	358.45	0.000	4.592842	4.643344
172	4.617019	.012472	370.19	0.000	4.592574	4.641464
173	4.615945	.0121092	381.19	0.000	4.592211	4.639679
174	4.614871	.0117998	391.10	0.000	4.591744	4.637998
175	4.613797	.011548	399.53	0.000	4.591163	4.636431
176	4.612723	.0113576	406.14	0.000	4.590463	4.634983
177	4.611649	.0112318	410.59	0.000	4.589635	4.633663
178	4.610575	.0111727	412.67	0.000	4.588677	4.632473
179	4.609501	.0111814	412.25	0.000	4.587586	4.631416
180	4.608427	.0112578	409.35	0.000	4.586362	4.630492
181	4.607353	.0114004	404.14	0.000	4.585008	4.629697
182	4.606279	.011607	396.86	0.000	4.58353	4.629028
183	4.605205	.011874	387.84	0.000	4.581932	4.628477
184	4.604131	.0121975	377.46	0.000	4.580224	4.628038
185	4.603057	.0125733	366.10	0.000	4.578414	4.6277
186	4.601983	.0129967	354.09	0.000	4.57651	4.627456
187	4.600909	.0134632	341.74	0.000	4.574521	4.627296
188	4.599835	.0139686	329.30	0.000	4.572457	4.627213
189	4.598761	.0145087	316.96	0.000	4.570324	4.627197
190	4.597687	.0150799	304.89	0.000	4.568131	4.627243
191	4.596613	.0156788	293.17	0.000	4.565883	4.627343
192	4.595539	.0163022	281.90	0.000	4.563587	4.627491
193	4.594465	.0169475	271.10	0.000	4.561248	4.627681
194	4.593391	.0176123	260.81	0.000	4.558871	4.62791
195	4.592317	.0182945	251.02	0.000	4.55646	4.628173
196	4.591243	.0189922	241.74	0.000	4.554019	4.628467
197	4.590169	.0197037	232.96	0.000	4.55155	4.628787
198	4.589095	.0204275	224.65	0.000	4.549057	4.629132
199	4.588021	.0211626	216.80	0.000	4.546543	4.629498
200	4.586947	.0219076	209.38	0.000	4.544009	4.629885
201	4.585873	.0226616	202.36	0.000	4.541457	4.630289
202	4.584799	.0234238	195.73	0.000	4.538889	4.630708
203	4.583725	.0241933	189.46	0.000	4.536307	4.631143
204	4.582651	.0249696	183.53	0.000	4.533711	4.63159
205	4.581577	.0257519	177.91	0.000	4.531104	4.632049
206	4.624505	.016592	278.72	0.000	4.591985	4.657025
207	4.623325	.0159521	289.83	0.000	4.592059	4.65459
208	4.622144	.0153376	301.36	0.000	4.592083	4.652205
209	4.620964	.0147519	313.24	0.000	4.592051	4.649877
210	4.619783	.0141985	325.37	0.000	4.591955	4.647612
211	4.618603	.0136813	337.59	0.000	4.591788	4.645418
212	4.617423	.0132045	349.69	0.000	4.591542	4.643303
213	4.616242	.0127727	361.42	0.000	4.591208	4.641276
214	4.615062	.0123905	372.47	0.000	4.590777	4.639347
215	4.613881	.0120628	382.49	0.000	4.590239	4.637524
216	4.612701	.0117939	391.11	0.000	4.589585	4.635816
217	4.61152	.0115882	397.95	0.000	4.588808	4.634233
218	4.61034	.0114488	402.69	0.000	4.587901	4.632779
219	4.609159	.0113784	405.08	0.000	4.586858	4.631461
220	4.607979	.0113781	404.99	0.000	4.585678	4.63028
221	4.606799	.0114479	402.41	0.000	4.584361	4.629236
222	4.605618	.0115867	397.49	0.000	4.582909	4.628328
223	4.604438	.0117919	390.48	0.000	4.581326	4.627549
224	4.603257	.0120601	381.69	0.000	4.57962	4.626895
225	4.602077	.0123874	371.51	0.000	4.577798	4.626356
226	4.600896	.0127691	360.32	0.000	4.57587	4.625923
227	4.599716	.0132005	348.45	0.000	4.573844	4.625588
228	4.598536	.0136769	336.23	0.000	4.571729	4.625342
229	4.597355	.0141938	323.90	0.000	4.569536	4.625174
230	4.596175	.0147469	311.67	0.000	4.567271	4.625078
231	4.594994	.0153324	299.69	0.000	4.564943	4.625045
232	4.593814	.0159465	288.08	0.000	4.562559	4.625068
233	4.592633	.0165863	276.89	0.000	4.560125	4.625142
234	4.591453	.0172487	266.19	0.000	4.557646	4.62526
235	4.590273	.0179314	255.99	0.000	4.555128	4.625417
236	4.589092	.018632	246.30	0.000	4.552574	4.62561
237	4.587912	.0193486	237.12	0.000	4.549989	4.625834
238	4.586731	.0200796	228.43	0.000	4.547376	4.626086
239	4.585551	.0208233	220.21	0.000	4.544738	4.626364
240	4.58437	.0215785	212.45	0.000	4.542077	4.626663

241	4.58319	.0223441	205.12	0.000	4.539396	4.626983
242	4.582009	.0231189	198.19	0.000	4.536697	4.627322
243	4.580829	.0239021	191.65	0.000	4.533982	4.627676
244	4.579649	.0246929	185.46	0.000	4.531251	4.628046
245	4.578468	.0254906	179.61	0.000	4.528508	4.628429
246	4.577288	.0262945	174.08	0.000	4.525751	4.628824
247	4.624473	.0170748	270.84	0.000	4.591007	4.657939
248	4.623186	.0164109	281.72	0.000	4.591022	4.655351
249	4.621899	.0157726	293.03	0.000	4.590986	4.652813
250	4.620612	.0151632	304.72	0.000	4.590893	4.650332
251	4.619326	.0145865	316.69	0.000	4.590737	4.647915
252	4.618039	.0140463	328.77	0.000	4.590509	4.645569
253	4.616752	.0135471	340.79	0.000	4.5902	4.643304
254	4.615465	.0130935	352.50	0.000	4.589802	4.641128
255	4.614178	.0126904	363.60	0.000	4.589305	4.639051
256	4.612891	.0123428	373.73	0.000	4.5887	4.637083
257	4.611605	.0120555	382.53	0.000	4.587976	4.635233
258	4.610318	.0118329	389.62	0.000	4.587126	4.63351
259	4.609031	.0116787	394.65	0.000	4.586141	4.631921
260	4.607744	.0115956	397.37	0.000	4.585017	4.630471
261	4.606457	.0115851	397.62	0.000	4.583751	4.629163
262	4.60517	.0116474	395.38	0.000	4.582342	4.627999
263	4.603883	.0117814	390.77	0.000	4.580792	4.626975
264	4.602597	.0119847	384.04	0.000	4.579107	4.626086
265	4.60131	.0122539	375.50	0.000	4.577293	4.625327
266	4.600023	.0125846	365.53	0.000	4.575358	4.624688
267	4.598736	.0129722	354.51	0.000	4.573311	4.624161
268	4.597449	.0134118	342.79	0.000	4.571163	4.623736
269	4.596162	.0138984	330.70	0.000	4.568922	4.623403
270	4.594875	.0144273	318.49	0.000	4.566599	4.623152
271	4.593589	.0149939	306.36	0.000	4.564201	4.622976
272	4.592302	.0155943	294.49	0.000	4.561737	4.622866
273	4.591015	.0162246	282.97	0.000	4.559215	4.622815
274	4.589728	.0168815	271.88	0.000	4.556641	4.622815
275	4.588441	.017562	261.27	0.000	4.55402	4.622862
276	4.587154	.0182635	251.17	0.000	4.551359	4.62295
277	4.585867	.0189836	241.57	0.000	4.54866	4.623075
278	4.584581	.0197203	232.48	0.000	4.54593	4.623232
279	4.583294	.0204718	223.88	0.000	4.54317	4.623418
280	4.582007	.0212365	215.76	0.000	4.540384	4.62363
281	4.58072	.0220131	208.09	0.000	4.537575	4.623865
282	4.579433	.0228004	200.85	0.000	4.534745	4.624121
283	4.578146	.0235972	194.01	0.000	4.531897	4.624396
284	4.576859	.0244027	187.56	0.000	4.529031	4.624688
285	4.575573	.025216	181.46	0.000	4.52615	4.624995
286	4.574286	.0260363	175.69	0.000	4.523255	4.625316
287	4.572999	.0268631	170.23	0.000	4.520348	4.62565
288	4.624441	.0175858	262.97	0.000	4.589974	4.658908
289	4.623048	.0168965	273.61	0.000	4.589931	4.656164
290	4.621654	.016233	284.71	0.000	4.589838	4.653471
291	4.620261	.0155987	296.20	0.000	4.589688	4.650834
292	4.618868	.0149972	307.98	0.000	4.589474	4.648262
293	4.617475	.0144328	319.93	0.000	4.589187	4.645762
294	4.616081	.0139097	331.86	0.000	4.588819	4.643344
295	4.614688	.013433	343.53	0.000	4.58836	4.641016
296	4.613295	.0130076	354.66	0.000	4.5878	4.638789
297	4.611902	.0126389	364.90	0.000	4.58713	4.636673
298	4.610508	.0123317	373.87	0.000	4.586338	4.634678
299	4.609115	.012091	381.20	0.000	4.585417	4.632813
300	4.607722	.0119206	386.53	0.000	4.584358	4.631086
301	4.606328	.0118237	389.59	0.000	4.583154	4.629502
302	4.604935	.0118019	390.18	0.000	4.581804	4.628067
303	4.603542	.0118559	388.29	0.000	4.580305	4.626779
304	4.602149	.0119844	384.01	0.000	4.57866	4.625638
305	4.600755	.0121852	377.57	0.000	4.576873	4.624638
306	4.599362	.0124548	369.28	0.000	4.574951	4.623773
307	4.597969	.0127888	359.53	0.000	4.572903	4.623034
308	4.596576	.0131823	348.69	0.000	4.570739	4.622412
309	4.595182	.0136302	337.13	0.000	4.568468	4.621897
310	4.593789	.0141273	325.17	0.000	4.5661	4.621478
311	4.592396	.0146686	313.08	0.000	4.563646	4.621146
312	4.591002	.0152494	301.06	0.000	4.561114	4.620891
313	4.589609	.0158653	289.29	0.000	4.558514	4.620705

314	4.588216	.0165124	277.86	0.000	4.555852	4.62058
315	4.586823	.0171873	266.87	0.000	4.553136	4.620509
316	4.585429	.0178867	256.36	0.000	4.550372	4.620487
317	4.584036	.0186079	246.35	0.000	4.547565	4.620507
318	4.582643	.0193485	236.85	0.000	4.544721	4.620565
319	4.58125	.0201063	227.85	0.000	4.541842	4.620657
320	4.579856	.0208794	219.35	0.000	4.538933	4.620779
321	4.578463	.0216662	211.32	0.000	4.535998	4.620928
322	4.57707	.0224653	203.74	0.000	4.533039	4.621101
323	4.575676	.0232753	196.59	0.000	4.530058	4.621295
324	4.574283	.0240953	189.84	0.000	4.527057	4.621509
325	4.57289	.0249242	183.47	0.000	4.524039	4.62174
326	4.571497	.0257611	177.46	0.000	4.521006	4.621988
327	4.570103	.0266053	171.77	0.000	4.517958	4.622249
328	4.56871	.0274562	166.40	0.000	4.514897	4.622523
329	4.624409	.0181224	255.18	0.000	4.58889	4.659928
330	4.622909	.0174066	265.58	0.000	4.588793	4.657026
331	4.62141	.0167168	276.45	0.000	4.588645	4.654174
332	4.61991	.0160563	287.73	0.000	4.58844	4.65138
333	4.61841	.015429	299.33	0.000	4.58817	4.64865
334	4.61691	.014839	311.13	0.000	4.587827	4.645994
335	4.615411	.0142909	322.96	0.000	4.587401	4.64342
336	4.613911	.0137898	334.59	0.000	4.586884	4.640939
337	4.612411	.0133409	345.73	0.000	4.586264	4.638559
338	4.610912	.0129497	356.06	0.000	4.585531	4.636293
339	4.609412	.0126216	365.20	0.000	4.584674	4.63415
340	4.607912	.0123615	372.76	0.000	4.583684	4.63214
341	4.606413	.0121739	378.39	0.000	4.582552	4.630273
342	4.604913	.012062	381.77	0.000	4.581272	4.628554
343	4.603413	.0120281	382.72	0.000	4.579839	4.626988
344	4.601914	.0120728	381.18	0.000	4.578251	4.625576
345	4.600414	.0121951	377.23	0.000	4.576512	4.624316
346	4.598914	.0123929	371.09	0.000	4.574624	4.623204
347	4.597414	.0126626	363.07	0.000	4.572596	4.622233
348	4.595915	.0129997	353.54	0.000	4.570436	4.621394
349	4.594415	.0133991	342.89	0.000	4.568153	4.620677
350	4.592915	.0138554	331.49	0.000	4.565759	4.620072
351	4.591416	.0143633	319.66	0.000	4.563264	4.619567
352	4.589916	.0149174	307.69	0.000	4.560679	4.619154
353	4.588416	.0155128	295.78	0.000	4.558012	4.618821
354	4.586917	.0161449	284.11	0.000	4.555273	4.61856
355	4.585417	.0168096	272.79	0.000	4.552471	4.618363
356	4.583917	.0175031	261.89	0.000	4.549612	4.618223
357	4.582418	.0182223	251.47	0.000	4.546703	4.618133
358	4.580918	.0189641	241.56	0.000	4.543749	4.618087
359	4.579418	.019726	232.15	0.000	4.540756	4.61808
360	4.577919	.0205058	223.25	0.000	4.537728	4.618109
361	4.576419	.0213015	214.84	0.000	4.534669	4.618169
362	4.574919	.0221114	206.90	0.000	4.531582	4.618257
363	4.573419	.0229339	199.42	0.000	4.52847	4.618369
364	4.57192	.0237679	192.36	0.000	4.525336	4.618504
365	4.57042	.024612	185.70	0.000	4.522181	4.618659
366	4.56892	.0254653	179.42	0.000	4.519009	4.618832
367	4.567421	.026327	173.49	0.000	4.515821	4.619021
368	4.565921	.0271961	167.89	0.000	4.512618	4.619224
369	4.564421	.0280721	162.60	0.000	4.509401	4.619442
370	4.624377	.0186827	247.52	0.000	4.587759	4.660994
371	4.622771	.0179393	257.69	0.000	4.58761	4.657931
372	4.621165	.017222	268.33	0.000	4.58741	4.654919
373	4.619558	.0165343	279.39	0.000	4.587152	4.651965
374	4.617952	.01588	290.80	0.000	4.586828	4.649077
375	4.616346	.0152634	302.45	0.000	4.586431	4.646262
376	4.61474	.0146892	314.16	0.000	4.58595	4.643531
377	4.613134	.0141626	325.73	0.000	4.585376	4.640892
378	4.611528	.0136892	336.87	0.000	4.584698	4.638358
379	4.609922	.0132745	347.28	0.000	4.583904	4.635939
380	4.608316	.0129242	356.57	0.000	4.582985	4.633647
381	4.60671	.0126437	364.35	0.000	4.581928	4.631491
382	4.605104	.0124378	370.25	0.000	4.580726	4.629481
383	4.603497	.01231	373.96	0.000	4.57937	4.627625
384	4.601891	.012263	375.27	0.000	4.577856	4.625926
385	4.600285	.0122977	374.08	0.000	4.576182	4.624388
386	4.598679	.0124132	370.47	0.000	4.57435	4.623009

387	4.597073	.0126075	364.63	0.000	4.572363	4.621783
388	4.595467	.0128769	356.88	0.000	4.570229	4.620705
389	4.593861	.0132169	347.57	0.000	4.567956	4.619765
390	4.592255	.0136222	337.12	0.000	4.565556	4.618954
391	4.590649	.0140871	325.88	0.000	4.563038	4.618259
392	4.589042	.014606	314.19	0.000	4.560415	4.61767
393	4.587436	.0151733	302.34	0.000	4.557697	4.617175
394	4.58583	.0157837	290.54	0.000	4.554895	4.616766
395	4.584224	.0164326	278.97	0.000	4.552017	4.616431
396	4.582618	.0171155	267.75	0.000	4.549072	4.616164
397	4.581012	.0178285	256.95	0.000	4.546069	4.615955
398	4.579406	.0185681	246.63	0.000	4.543013	4.615799
399	4.5778	.0193313	236.81	0.000	4.539911	4.615688
400	4.576194	.0201154	227.50	0.000	4.536768	4.615619
401	4.574587	.0209181	218.69	0.000	4.533589	4.615586
402	4.572981	.0217372	210.38	0.000	4.530377	4.615586
403	4.571375	.0225711	202.53	0.000	4.527137	4.615614
404	4.569769	.0234181	195.14	0.000	4.523871	4.615668
405	4.568163	.0242768	188.17	0.000	4.520581	4.615745
406	4.566557	.0251461	181.60	0.000	4.517271	4.615842
407	4.564951	.0260249	175.41	0.000	4.513943	4.615959
408	4.563345	.0269122	169.56	0.000	4.510598	4.616092
409	4.561739	.0278073	164.05	0.000	4.507237	4.61624
410	4.560132	.0287094	158.84	0.000	4.503863	4.616402
411	4.624345	.0192643	240.05	0.000	4.586587	4.662102
412	4.622632	.0184924	249.97	0.000	4.586388	4.658877
413	4.62092	.0177468	260.38	0.000	4.586137	4.655703
414	4.619207	.0170309	271.22	0.000	4.585827	4.652587
415	4.617495	.0163487	282.44	0.000	4.585452	4.649537
416	4.615782	.0157045	293.91	0.000	4.585002	4.646562
417	4.61407	.0151033	305.50	0.000	4.584468	4.643671
418	4.612357	.0145503	316.99	0.000	4.583839	4.640875
419	4.610645	.0140512	328.13	0.000	4.583105	4.638184
420	4.608932	.013612	338.59	0.000	4.582253	4.635611
421	4.607219	.0132387	348.01	0.000	4.581272	4.633167
422	4.605507	.0129368	356.00	0.000	4.580151	4.630863
423	4.603794	.0127116	362.17	0.000	4.57888	4.628709
424	4.602082	.0125672	366.20	0.000	4.577451	4.626713
425	4.600369	.0125063	367.84	0.000	4.575858	4.624881
426	4.598657	.0125301	367.01	0.000	4.574098	4.623215
427	4.596944	.0126383	363.73	0.000	4.572174	4.621715
428	4.595232	.0128286	358.20	0.000	4.570088	4.620375
429	4.593519	.0130975	350.72	0.000	4.567849	4.61919
430	4.591807	.0134402	341.65	0.000	4.565464	4.618149
431	4.590094	.0138513	331.38	0.000	4.562946	4.617242
432	4.588382	.014325	320.31	0.000	4.560305	4.616458
433	4.586669	.0148551	308.76	0.000	4.557554	4.615785
434	4.584957	.0154359	297.03	0.000	4.554703	4.61521
435	4.583244	.0160619	285.35	0.000	4.551763	4.614725
436	4.581532	.0167281	273.88	0.000	4.548745	4.614318
437	4.579819	.0174297	262.76	0.000	4.545657	4.613981
438	4.578107	.0181628	252.06	0.000	4.542508	4.613705
439	4.576394	.0189236	241.84	0.000	4.539304	4.613484
440	4.574681	.019709	232.11	0.000	4.536053	4.61331
441	4.572969	.0205161	222.90	0.000	4.532758	4.61318
442	4.571256	.0213424	214.19	0.000	4.529426	4.613087
443	4.569544	.0221859	205.97	0.000	4.52606	4.613027
444	4.567831	.0230445	198.22	0.000	4.522665	4.612998
445	4.566119	.0239168	190.92	0.000	4.519243	4.612995
446	4.564406	.0248013	184.04	0.000	4.515797	4.613016
447	4.562694	.0256966	177.56	0.000	4.512329	4.613058
448	4.560981	.0266017	171.45	0.000	4.508843	4.61312
449	4.559269	.0275157	165.70	0.000	4.505339	4.613198
450	4.557556	.0284376	160.27	0.000	4.501819	4.613293
451	4.555844	.0293668	155.14	0.000	4.498286	4.613402
452	4.624313	.0198656	232.78	0.000	4.585377	4.663249
453	4.622494	.0190643	242.47	0.000	4.585128	4.659859
454	4.620675	.0182895	252.64	0.000	4.584828	4.656521
455	4.618856	.0175445	263.26	0.000	4.584469	4.653243
456	4.617037	.0168336	274.28	0.000	4.584044	4.65003
457	4.615218	.016161	285.58	0.000	4.583543	4.646893
458	4.613399	.0155318	297.03	0.000	4.582957	4.643841
459	4.61158	.0149515	308.44	0.000	4.582276	4.640885

460	4.609761	.014426	319.54	0.000	4.581487	4.638036
461	4.607942	.0139615	330.05	0.000	4.580578	4.635306
462	4.606123	.0135641	339.58	0.000	4.579538	4.632708
463	4.604304	.0132401	347.75	0.000	4.578354	4.630254
464	4.602485	.0129948	354.18	0.000	4.577016	4.627955
465	4.600666	.0128329	358.51	0.000	4.575514	4.625818
466	4.598847	.0127573	360.49	0.000	4.573844	4.623851
467	4.597028	.0127698	359.99	0.000	4.572	4.622057
468	4.59521	.01287	357.05	0.000	4.569985	4.620434
469	4.593391	.0130559	351.83	0.000	4.567802	4.61898
470	4.591572	.0133239	344.61	0.000	4.565457	4.617686
471	4.589753	.0136693	335.77	0.000	4.562961	4.616544
472	4.587934	.0140862	325.70	0.000	4.560325	4.615542
473	4.586115	.0145686	314.79	0.000	4.557561	4.614669
474	4.584296	.0151103	303.39	0.000	4.55468	4.613911
475	4.582477	.015705	291.79	0.000	4.551696	4.613258
476	4.580658	.0163469	280.22	0.000	4.548619	4.612697
477	4.578839	.0170308	268.86	0.000	4.545459	4.612219
478	4.57702	.0177518	257.83	0.000	4.542227	4.611813
479	4.575201	.0185056	247.23	0.000	4.538931	4.611471
480	4.573382	.0192883	237.11	0.000	4.535578	4.611187
481	4.571563	.0200965	227.48	0.000	4.532175	4.610952
482	4.569744	.0209273	218.36	0.000	4.528728	4.610761
483	4.567925	.021778	209.75	0.000	4.525241	4.61061
484	4.566106	.0226466	201.62	0.000	4.52172	4.610493
485	4.564287	.0235309	193.97	0.000	4.518168	4.610407
486	4.562469	.0244292	186.76	0.000	4.514588	4.610349
487	4.56065	.0253402	179.98	0.000	4.510984	4.610315
488	4.558831	.0262624	173.59	0.000	4.507357	4.610304
489	4.557012	.0271947	167.57	0.000	4.503711	4.610312
490	4.555193	.0281361	161.90	0.000	4.500047	4.610338
491	4.553374	.0290857	156.55	0.000	4.496367	4.610381
492	4.551555	.0300428	151.50	0.000	4.492672	4.610438
493	4.624281	.0204848	225.74	0.000	4.584131	4.66443
494	4.622355	.0196533	235.19	0.000	4.583835	4.660875
495	4.620403	.0188485	245.14	0.000	4.583488	4.657372
496	4.618505	.0180738	255.54	0.000	4.583081	4.653928
497	4.616579	.0173333	266.34	0.000	4.582607	4.650552
498	4.614654	.0166316	277.46	0.000	4.582057	4.647251
499	4.612728	.0159737	288.77	0.000	4.581421	4.644036
500	4.610803	.0153654	300.08	0.000	4.580687	4.640919
501	4.608878	.0148126	311.15	0.000	4.579845	4.63791
502	4.606952	.014322	321.67	0.000	4.578882	4.635023
503	4.605027	.0138999	331.30	0.000	4.577784	4.63227
504	4.603102	.0135529	339.64	0.000	4.576538	4.629665
505	4.601176	.0132868	346.30	0.000	4.575135	4.627218
506	4.599251	.0131066	350.91	0.000	4.573562	4.624939
507	4.597326	.0130157	353.21	0.000	4.571815	4.622836
508	4.5954	.0130162	353.05	0.000	4.569889	4.620911
509	4.593475	.0131079	350.43	0.000	4.567784	4.619166
510	4.591549	.0132891	345.51	0.000	4.565503	4.617596
511	4.589624	.013556	338.57	0.000	4.563055	4.616193
512	4.587699	.0139038	329.96	0.000	4.560448	4.61495
513	4.585773	.0143266	320.09	0.000	4.557694	4.613853
514	4.583848	.0148179	309.35	0.000	4.554805	4.612891
515	4.581923	.0153712	298.08	0.000	4.551796	4.61205
516	4.579997	.0159801	286.61	0.000	4.548677	4.611318
517	4.578072	.0166384	275.15	0.000	4.545461	4.610683
518	4.576147	.0173406	263.90	0.000	4.54216	4.610133
519	4.574221	.0180814	252.98	0.000	4.538782	4.60966
520	4.572296	.0188564	242.48	0.000	4.535338	4.609254
521	4.57037	.0196616	232.45	0.000	4.531834	4.608906
522	4.568445	.0204933	222.92	0.000	4.528279	4.608611
523	4.566652	.0213484	213.90	0.000	4.524678	4.608362
524	4.564594	.0222243	205.39	0.000	4.521035	4.608153
525	4.562669	.0231186	197.36	0.000	4.517357	4.607981
526	4.560744	.0240293	189.80	0.000	4.513647	4.60784
527	4.558818	.0249545	182.69	0.000	4.509908	4.607728
528	4.556893	.0258927	175.99	0.000	4.506144	4.607642
529	4.554968	.0268425	169.69	0.000	4.502357	4.607578
530	4.553042	.0278028	163.76	0.000	4.49855	4.607535
531	4.551117	.0287724	158.18	0.000	4.494724	4.60751
532	4.549191	.0297505	152.91	0.000	4.490881	4.607501

533	4.547266	.0307363	147.94	0.000	4.487024	4.607508
534	4.624249	.0211202	218.95	0.000	4.582854	4.665643
535	4.622217	.0202579	228.17	0.000	4.582512	4.661922
536	4.620185	.0194224	237.88	0.000	4.582118	4.658252
537	4.618153	.0186173	248.06	0.000	4.581664	4.654642
538	4.616121	.0178466	258.66	0.000	4.581143	4.6511
539	4.61409	.017115	269.59	0.000	4.580545	4.647634
540	4.612058	.0164278	280.75	0.000	4.57986	4.644256
541	4.610026	.0157908	291.94	0.000	4.579077	4.640975
542	4.607994	.0152101	302.96	0.000	4.578183	4.637806
543	4.605962	.0146927	313.49	0.000	4.577165	4.63476
544	4.603931	.0142452	323.19	0.000	4.576011	4.631851
545	4.601899	.0138745	331.68	0.000	4.574705	4.629093
546	4.599867	.013587	338.55	0.000	4.573237	4.626497
547	4.597835	.0133878	343.43	0.000	4.571596	4.624075
548	4.595804	.0132811	346.04	0.000	4.569773	4.621834
549	4.593772	.013269	346.20	0.000	4.567765	4.619779
550	4.59174	.0133518	343.90	0.000	4.565571	4.617909
551	4.589708	.0135278	339.28	0.000	4.563194	4.616222
552	4.587676	.0137934	332.60	0.000	4.560642	4.614711
553	4.585645	.0141435	324.22	0.000	4.557924	4.613365
554	4.583613	.0145721	314.55	0.000	4.555052	4.612174
555	4.581581	.0150725	303.97	0.000	4.55204	4.611123
556	4.579549	.0156377	292.85	0.000	4.5489	4.610199
557	4.577518	.016261	281.50	0.000	4.545647	4.609389
558	4.575486	.0169361	270.16	0.000	4.542292	4.60868
559	4.573454	.0176569	259.02	0.000	4.538847	4.608061
560	4.571422	.0184181	248.20	0.000	4.535323	4.607521
561	4.56939	.0192149	237.80	0.000	4.53173	4.607051
562	4.567359	.0200431	227.88	0.000	4.528075	4.606642
563	4.565327	.0208988	218.45	0.000	4.524366	4.606288
564	4.563295	.021779	209.53	0.000	4.520609	4.605981
565	4.561263	.0226807	201.11	0.000	4.51681	4.605717
566	4.559232	.0236014	193.18	0.000	4.512974	4.605489
567	4.5572	.0245391	185.71	0.000	4.509104	4.605295
568	4.555168	.0254918	178.69	0.000	4.505205	4.605131
569	4.553136	.0264579	172.09	0.000	4.50128	4.604993
570	4.551104	.0274361	165.88	0.000	4.497331	4.604878
571	4.549073	.028425	160.04	0.000	4.493361	4.604785
572	4.547041	.0294236	154.54	0.000	4.489372	4.60471
573	4.545009	.0304309	149.35	0.000	4.485366	4.604653
574	4.542977	.0314461	144.47	0.000	4.481344	4.604611
575	4.624216	.0217705	212.41	0.000	4.581547	4.666886
576	4.622078	.0208768	221.40	0.000	4.58116	4.662996
577	4.61994	.02001	230.88	0.000	4.580721	4.659159
578	4.617802	.0191738	240.84	0.000	4.580222	4.655382
579	4.615664	.0183724	251.23	0.000	4.579654	4.651673
580	4.613525	.0176104	261.98	0.000	4.57901	4.648041
581	4.611387	.0168932	272.97	0.000	4.578277	4.644497
582	4.609249	.0162268	284.05	0.000	4.577445	4.641053
583	4.607111	.0156177	294.99	0.000	4.576501	4.637721
584	4.604973	.0150728	305.51	0.000	4.57543	4.634515
585	4.602834	.0145994	315.28	0.000	4.57422	4.631449
586	4.600696	.0142044	323.89	0.000	4.572856	4.628536
587	4.598558	.0138948	330.96	0.000	4.571325	4.625791
588	4.59642	.0136761	336.09	0.000	4.569615	4.623225
589	4.594282	.013553	338.99	0.000	4.567718	4.620845
590	4.592143	.0135278	339.46	0.000	4.565629	4.618658
591	4.590005	.0136013	337.47	0.000	4.563347	4.616663
592	4.587867	.0137718	333.13	0.000	4.560875	4.614859
593	4.585729	.0140358	326.72	0.000	4.558219	4.613239
594	4.583591	.0143882	318.57	0.000	4.55539	4.611791
595	4.581452	.0148226	309.09	0.000	4.552401	4.610504
596	4.579314	.015332	298.68	0.000	4.549264	4.609364
597	4.577176	.0159094	287.70	0.000	4.545994	4.608358
598	4.575038	.0165474	276.48	0.000	4.542605	4.60747
599	4.5729	.0172395	265.26	0.000	4.539111	4.606689
600	4.570761	.0179794	254.22	0.000	4.535522	4.606
601	4.568623	.0187614	243.51	0.000	4.531852	4.605395
602	4.566485	.0195805	233.22	0.000	4.528108	4.604862
603	4.564347	.0204322	223.39	0.000	4.5243	4.604393
604	4.562209	.0213127	214.06	0.000	4.520437	4.603981
605	4.56007	.0222184	205.24	0.000	4.516523	4.603618

606	4.557932	.0231464	196.92	0.000	4.512566	4.603298
607	4.555794	.0240942	189.08	0.000	4.50857	4.603018
608	4.553656	.0250595	181.71	0.000	4.50454	4.602772
609	4.551518	.0260404	174.79	0.000	4.500479	4.602556
610	4.549379	.0270351	168.28	0.000	4.496392	4.602367
611	4.547241	.0280422	162.16	0.000	4.492279	4.602203
612	4.545103	.0290605	156.40	0.000	4.488146	4.60206
613	4.542965	.0300887	150.99	0.000	4.483992	4.601938
614	4.540827	.0311259	145.89	0.000	4.479821	4.601832
615	4.538688	.0321712	141.08	0.000	4.475634	4.601743
616	4.624184	.0224344	206.12	0.000	4.580214	4.668155
617	4.62194	.0215087	214.89	0.000	4.579783	4.664096
618	4.619695	.0206101	224.15	0.000	4.5793	4.66009
619	4.617451	.0197423	233.89	0.000	4.578756	4.656145
620	4.615206	.0189095	244.07	0.000	4.578144	4.652268
621	4.612961	.0181166	254.63	0.000	4.577453	4.648469
622	4.610717	.017369	265.46	0.000	4.576674	4.644759
623	4.608472	.0166727	276.41	0.000	4.575794	4.64115
624	4.606227	.0160346	287.27	0.000	4.5748	4.637655
625	4.603983	.0154618	297.77	0.000	4.573678	4.634287
626	4.601738	.0149617	307.57	0.000	4.572414	4.631063
627	4.599494	.014542	316.29	0.000	4.570992	4.627995
628	4.597249	.0142097	323.53	0.000	4.569398	4.625099
629	4.595004	.0139711	328.89	0.000	4.567622	4.622387
630	4.59276	.013831	332.06	0.000	4.565652	4.619868
631	4.590515	.0137924	332.83	0.000	4.563483	4.617548
632	4.58827	.0138561	331.14	0.000	4.561113	4.615428
633	4.586026	.0140209	327.09	0.000	4.558545	4.613506
634	4.583781	.0142831	320.92	0.000	4.555787	4.611776
635	4.581537	.0146375	313.00	0.000	4.552848	4.610226
636	4.579292	.0150777	303.71	0.000	4.54974	4.608844
637	4.577047	.0155964	293.47	0.000	4.546479	4.607616
638	4.574803	.016186	282.64	0.000	4.543079	4.606527
639	4.572558	.0168391	271.54	0.000	4.539554	4.605562
640	4.570314	.0175485	260.44	0.000	4.535919	4.604708
641	4.568069	.0183079	249.51	0.000	4.532186	4.603952
642	4.565824	.0191111	238.91	0.000	4.528367	4.603281
643	4.56358	.0199529	228.72	0.000	4.524473	4.602687
644	4.561335	.0208287	218.99	0.000	4.520512	4.602159
645	4.55909	.0217343	209.77	0.000	4.516492	4.601689
646	4.556846	.0226661	201.04	0.000	4.512421	4.601271
647	4.554601	.023621	192.82	0.000	4.508305	4.600898
648	4.552357	.0245965	185.08	0.000	4.504148	4.600565
649	4.550112	.02559	177.81	0.000	4.499957	4.600267
650	4.547867	.0265996	170.98	0.000	4.495733	4.600002
651	4.545623	.0276235	164.56	0.000	4.491482	4.599764
652	4.543378	.0286602	158.53	0.000	4.487205	4.599551
653	4.541133	.0297083	152.86	0.000	4.482906	4.599361
654	4.538889	.0307667	147.53	0.000	4.478587	4.599191
655	4.536644	.0318344	142.51	0.000	4.47425	4.599039
656	4.5344	.0329104	137.78	0.000	4.469896	4.598903
657	4.624152	.0231106	200.09	0.000	4.578856	4.669448
658	4.621801	.0221525	208.64	0.000	4.578383	4.665219
659	4.61945	.0212216	217.68	0.000	4.577857	4.661044
660	4.617099	.0203217	227.20	0.000	4.577269	4.656929
661	4.614748	.0194572	237.17	0.000	4.576613	4.652883
662	4.612397	.0186328	247.54	0.000	4.575877	4.648917
663	4.610046	.0178542	258.20	0.000	4.575052	4.64504
664	4.607695	.0171277	269.02	0.000	4.574125	4.641265
665	4.605344	.0164601	279.79	0.000	4.573083	4.637605
666	4.602993	.0158588	290.25	0.000	4.57191	4.634076
667	4.600642	.0153318	300.07	0.000	4.570592	4.630692
668	4.598291	.0148868	308.88	0.000	4.569113	4.627468
669	4.59594	.0145314	316.28	0.000	4.567459	4.624421
670	4.593589	.0142723	321.85	0.000	4.565616	4.621562
671	4.591238	.0141148	325.28	0.000	4.563573	4.618902
672	4.588887	.0140623	326.33	0.000	4.561325	4.616448
673	4.586536	.014116	324.92	0.000	4.558869	4.614202
674	4.584185	.0142746	321.14	0.000	4.556207	4.612162
675	4.581834	.0145349	315.23	0.000	4.553346	4.610321
676	4.579483	.0148913	307.53	0.000	4.550296	4.608669
677	4.577132	.0153373	298.43	0.000	4.547071	4.607192
678	4.574781	.0158653	288.35	0.000	4.543685	4.605876

679	4.572429	.0164673	277.67	0.000	4.540154	4.604705
680	4.570078	.0171356	266.70	0.000	4.536493	4.603664
681	4.567727	.0178628	255.71	0.000	4.532717	4.602738
682	4.565376	.0186419	244.90	0.000	4.528839	4.601914
683	4.563025	.0194668	234.40	0.000	4.524871	4.601179
684	4.560674	.0203318	224.31	0.000	4.520825	4.600524
685	4.558323	.021232	214.69	0.000	4.516709	4.599937
686	4.555972	.0221632	205.56	0.000	4.512533	4.599411
687	4.553621	.0231216	196.94	0.000	4.508304	4.598939
688	4.55127	.024104	188.82	0.000	4.504027	4.598513
689	4.548919	.0251076	181.18	0.000	4.499709	4.598129
690	4.546568	.0261298	174.00	0.000	4.495355	4.597782
691	4.544217	.0271687	167.26	0.000	4.490967	4.597467
692	4.541866	.0282224	160.93	0.000	4.486551	4.597181
693	4.539515	.0292892	154.99	0.000	4.482109	4.596921
694	4.537164	.0303678	149.41	0.000	4.477644	4.596684
695	4.534813	.031457	144.16	0.000	4.473158	4.596467
696	4.532462	.0325557	139.22	0.000	4.468654	4.59627
697	4.530111	.033663	134.57	0.000	4.464133	4.596089
698	4.62412	.0237982	194.31	0.000	4.577477	4.670764
699	4.621663	.0228072	202.64	0.000	4.576961	4.666364
700	4.619205	.0218436	211.47	0.000	4.576393	4.662018
701	4.616748	.0209112	220.78	0.000	4.575763	4.657733
702	4.61429	.0200144	230.55	0.000	4.575063	4.653518
703	4.611833	.0191582	240.72	0.000	4.574284	4.649382
704	4.609375	.0183483	251.22	0.000	4.573414	4.645337
705	4.606918	.017591	261.89	0.000	4.57244	4.641396
706	4.604461	.0168935	272.56	0.000	4.57135	4.637571
707	4.602003	.0162634	282.97	0.000	4.570127	4.633879
708	4.599546	.0157089	292.80	0.000	4.568757	4.630335
709	4.597088	.0152382	301.68	0.000	4.567222	4.626955
710	4.594631	.0148593	309.21	0.000	4.565507	4.623754
711	4.592173	.0145793	314.98	0.000	4.563598	4.620748
712	4.589716	.014404	318.64	0.000	4.561485	4.617947
713	4.587258	.0143372	319.95	0.000	4.559158	4.615359
714	4.584801	.0143805	318.82	0.000	4.556616	4.612986
715	4.582343	.0145329	315.31	0.000	4.553859	4.610827
716	4.579886	.014791	309.64	0.000	4.550896	4.608876
717	4.577429	.0151494	302.15	0.000	4.547736	4.607121
718	4.574971	.0156011	293.25	0.000	4.544393	4.605549
719	4.572514	.0161384	283.33	0.000	4.540883	4.604144
720	4.570056	.0167531	272.79	0.000	4.537221	4.602892
721	4.567599	.0174369	261.95	0.000	4.533423	4.601774
722	4.565141	.018182	251.08	0.000	4.529505	4.600777
723	4.562684	.0189812	240.38	0.000	4.525481	4.599886
724	4.560226	.0198281	229.99	0.000	4.521364	4.599089
725	4.557769	.0207166	220.01	0.000	4.517165	4.598373
726	4.555311	.0216418	210.49	0.000	4.512894	4.597729
727	4.552854	.0225991	201.46	0.000	4.508561	4.597147
728	4.550397	.0235846	192.94	0.000	4.504172	4.596621
729	4.547939	.0245949	184.91	0.000	4.499734	4.596144
730	4.545482	.025627	177.37	0.000	4.495254	4.59571
731	4.543024	.0266785	170.29	0.000	4.490735	4.595313
732	4.540567	.0277472	163.64	0.000	4.486183	4.59495
733	4.538109	.0288311	157.40	0.000	4.481601	4.594617
734	4.535652	.0299285	151.55	0.000	4.476993	4.594311
735	4.533194	.0310381	146.05	0.000	4.472361	4.594028
736	4.530737	.0321586	140.89	0.000	4.467707	4.593767
737	4.528279	.0332888	136.03	0.000	4.463035	4.593524
738	4.525822	.0344279	131.46	0.000	4.458345	4.593299
739	4.624088	.0244963	188.77	0.000	4.576076	4.6721
740	4.621524	.0234719	196.90	0.000	4.57552	4.667528
741	4.61896	.0224751	205.51	0.000	4.57491	4.663011
742	4.616397	.0215099	214.62	0.000	4.574238	4.658555
743	4.613833	.0205805	224.18	0.000	4.573496	4.65417
744	4.611269	.0196921	234.17	0.000	4.572673	4.649864
745	4.608705	.0188504	244.49	0.000	4.571759	4.645651
746	4.606141	.018062	255.02	0.000	4.57074	4.641542
747	4.603577	.0173343	265.58	0.000	4.569603	4.637552
748	4.601013	.0166675	275.92	0.000	4.568331	4.633696
749	4.598449	.0160927	285.75	0.000	4.566908	4.62999
750	4.595886	.0155959	294.69	0.000	4.565318	4.626453
751	4.593322	.015193	302.33	0.000	4.563544	4.623099

752	4.590758	.0148918	308.27	0.000	4.56157	4.619945
753	4.588194	.0146983	312.16	0.000	4.559386	4.617002
754	4.58563	.014617	313.72	0.000	4.556981	4.614279
755	4.583066	.0146496	312.85	0.000	4.554353	4.611779
756	4.580502	.0147954	309.59	0.000	4.551504	4.609501
757	4.577938	.0150512	304.16	0.000	4.548439	4.607438
758	4.575375	.0154114	296.88	0.000	4.545169	4.60558
759	4.572811	.015869	288.16	0.000	4.541708	4.603913
760	4.570247	.0164157	278.41	0.000	4.538073	4.602421
761	4.567683	.0170431	268.01	0.000	4.534279	4.601087
762	4.565119	.0177426	257.30	0.000	4.530344	4.599894
763	4.562555	.0185059	246.55	0.000	4.526284	4.598826
764	4.559991	.0193256	235.96	0.000	4.522114	4.597869
765	4.557427	.0201947	225.67	0.000	4.517846	4.597008
766	4.554864	.0211072	215.80	0.000	4.513494	4.596233
767	4.5523	.0220577	206.38	0.000	4.509067	4.595532
768	4.549736	.0230415	197.46	0.000	4.504575	4.594896
769	4.547172	.0240545	189.04	0.000	4.500026	4.594318
770	4.544608	.0250931	181.11	0.000	4.495426	4.59379
771	4.542044	.0261543	173.66	0.000	4.490783	4.593306
772	4.53948	.0272355	166.67	0.000	4.4861	4.592861
773	4.536916	.0283344	160.12	0.000	4.481382	4.592451
774	4.534353	.029449	153.97	0.000	4.476634	4.592072
775	4.531789	.0305776	148.21	0.000	4.471858	4.59172
776	4.529225	.0317186	142.79	0.000	4.467058	4.591392
777	4.526661	.0328708	137.71	0.000	4.462235	4.591087
778	4.524097	.0340331	132.93	0.000	4.457393	4.590801
779	4.521533	.0352045	128.44	0.000	4.452534	4.590533
780	4.624056	.0252038	183.47	0.000	4.574658	4.673455
781	4.621386	.0241457	191.40	0.000	4.574061	4.668711
782	4.618715	.0231155	199.81	0.000	4.57341	4.664021
783	4.616045	.022117	208.71	0.000	4.572697	4.659394
784	4.613375	.0211547	218.08	0.000	4.571912	4.654837
785	4.610705	.0202337	227.87	0.000	4.571047	4.650362
786	4.608034	.01936	238.02	0.000	4.570089	4.645979
787	4.605364	.0185402	248.40	0.000	4.569026	4.641702
788	4.602694	.0177818	258.84	0.000	4.567842	4.637545
789	4.600023	.017093	269.12	0.000	4.566522	4.633525
790	4.597353	.0164826	278.92	0.000	4.565048	4.629658
791	4.594683	.0159594	287.90	0.000	4.563403	4.625963
792	4.592013	.0155323	295.64	0.000	4.56157	4.622455
793	4.589342	.0152094	301.74	0.000	4.559532	4.619152
794	4.586672	.0149975	305.83	0.000	4.557277	4.616067
795	4.584002	.0149012	307.63	0.000	4.554796	4.613208
796	4.581331	.0149229	307.00	0.000	4.552083	4.61058
797	4.578661	.015062	303.99	0.000	4.54914	4.608182
798	4.575991	.0153153	298.79	0.000	4.545973	4.606008
799	4.573321	.0156773	291.72	0.000	4.542594	4.604047
800	4.57065	.0161406	283.18	0.000	4.539015	4.602285
801	4.56798	.0166969	273.58	0.000	4.535255	4.600705
802	4.56531	.0173372	263.33	0.000	4.531329	4.59929
803	4.562639	.0180525	252.74	0.000	4.527257	4.598022
804	4.559969	.0188343	242.11	0.000	4.523055	4.596884
805	4.557299	.0196747	231.63	0.000	4.518737	4.59586
806	4.554628	.0205665	221.46	0.000	4.514319	4.594938
807	4.551958	.0215033	211.69	0.000	4.509813	4.594104
808	4.549288	.0224794	202.38	0.000	4.505229	4.593347
809	4.546618	.0234901	193.55	0.000	4.500578	4.592657
810	4.543947	.0245309	185.23	0.000	4.495868	4.592027
811	4.541277	.0255983	177.41	0.000	4.491105	4.591449
812	4.538607	.026689	170.06	0.000	4.486297	4.590916
813	4.535936	.0278004	163.16	0.000	4.481449	4.590424
814	4.533266	.0289299	156.70	0.000	4.476565	4.589968
815	4.530596	.0300756	150.64	0.000	4.471649	4.589543
816	4.527926	.0312357	144.96	0.000	4.466705	4.589146
817	4.525255	.0324086	139.63	0.000	4.461736	4.588775
818	4.522585	.0335931	134.63	0.000	4.456744	4.588426
819	4.519915	.0347878	129.93	0.000	4.451732	4.588098
820	4.517244	.0359919	125.51	0.000	4.446702	4.587787
821	4.624024	.0259201	178.40	0.000	4.573222	4.674826
822	4.621247	.024828	186.13	0.000	4.572585	4.669909
823	4.618471	.023764	194.35	0.000	4.571894	4.665047
824	4.615694	.0227319	203.05	0.000	4.57114	4.660248

825	4.612917	.0217363	212.22	0.000	4.570315	4.65552
826	4.61014	.0207825	221.83	0.000	4.569407	4.650873
827	4.607364	.0198764	231.80	0.000	4.568407	4.646321
828	4.604587	.019025	242.03	0.000	4.567299	4.641875
829	4.60181	.0182357	252.35	0.000	4.566069	4.637552
830	4.599034	.0175171	262.55	0.000	4.564701	4.633366
831	4.596257	.0168782	272.32	0.000	4.563176	4.629337
832	4.59348	.0163283	281.32	0.000	4.561477	4.625483
833	4.590703	.0158766	289.15	0.000	4.559586	4.621821
834	4.587927	.0155319	295.39	0.000	4.557485	4.618369
835	4.58515	.0153012	299.66	0.000	4.55516	4.61514
836	4.582373	.0151898	301.67	0.000	4.552602	4.612145
837	4.579597	.0152003	301.28	0.000	4.549805	4.609389
838	4.57682	.0153324	298.51	0.000	4.546769	4.606871
839	4.574043	.0155831	293.53	0.000	4.543501	4.604586
840	4.571266	.0159468	286.66	0.000	4.540011	4.602522
841	4.56849	.0164159	278.30	0.000	4.536315	4.600664
842	4.565713	.0169818	268.86	0.000	4.532429	4.598997
843	4.562936	.017635	258.74	0.000	4.528372	4.5975
844	4.56016	.0183664	248.29	0.000	4.524162	4.596157
845	4.557383	.0191669	237.77	0.000	4.519816	4.594949
846	4.554606	.0200283	227.41	0.000	4.515351	4.593861
847	4.55183	.020943	217.34	0.000	4.510782	4.592877
848	4.549053	.0219044	207.68	0.000	4.506121	4.591985
849	4.546276	.0229066	198.47	0.000	4.50138	4.591172
850	4.543499	.0239445	189.75	0.000	4.496569	4.59043
851	4.540723	.0250136	181.53	0.000	4.491697	4.589748
852	4.537946	.0261101	173.80	0.000	4.486771	4.589121
853	4.535169	.0272307	166.55	0.000	4.481798	4.58854
854	4.532393	.0283725	159.75	0.000	4.476783	4.588002
855	4.529616	.0295331	153.37	0.000	4.471732	4.5875
856	4.526839	.0307103	147.40	0.000	4.466648	4.58703
857	4.524062	.0319023	141.81	0.000	4.461535	4.58659
858	4.521286	.0331076	136.56	0.000	4.456396	4.586175
859	4.518509	.0343246	131.64	0.000	4.451234	4.585784
860	4.515732	.0355523	127.02	0.000	4.446051	4.585413
861	4.512956	.0367894	122.67	0.000	4.44085	4.585062
862	4.623992	.0266444	173.54	0.000	4.57177	4.676214
863	4.621109	.025518	181.09	0.000	4.571094	4.671123
864	4.618226	.0244199	189.12	0.000	4.570363	4.666088
865	4.615343	.023354	197.63	0.000	4.56957	4.661116
866	4.612459	.0223249	206.61	0.000	4.568703	4.656215
867	4.609576	.0213379	216.03	0.000	4.567755	4.651398
868	4.606693	.0203993	225.83	0.000	4.566711	4.646675
869	4.60381	.0195158	235.90	0.000	4.56556	4.64206
870	4.600927	.0186954	246.10	0.000	4.564285	4.637569
871	4.598044	.0179467	256.20	0.000	4.562869	4.633219
872	4.595161	.0172791	265.94	0.000	4.561294	4.629027
873	4.592277	.0167022	274.95	0.000	4.559542	4.625013
874	4.589394	.0162258	282.85	0.000	4.557592	4.621196
875	4.586511	.0158589	289.21	0.000	4.555428	4.617594
876	4.583628	.0156091	293.65	0.000	4.553035	4.614221
877	4.580745	.0154823	295.87	0.000	4.5504	4.61109
878	4.577862	.0154814	295.70	0.000	4.547519	4.608205
879	4.574979	.0156064	293.15	0.000	4.544391	4.605567
880	4.572096	.0158544	288.38	0.000	4.541021	4.60317
881	4.569212	.0162197	281.71	0.000	4.537422	4.601003
882	4.566329	.0166947	273.52	0.000	4.533608	4.59905
883	4.563446	.0172702	264.24	0.000	4.529597	4.597295
884	4.560563	.0179366	254.26	0.000	4.525408	4.595718
885	4.55768	.0186841	243.93	0.000	4.52106	4.5943
886	4.554797	.0195036	233.54	0.000	4.516571	4.593023
887	4.551914	.0203862	223.28	0.000	4.511958	4.59187
888	4.549031	.0213241	213.33	0.000	4.507236	4.590825
889	4.546147	.0223104	203.77	0.000	4.50242	4.589875
890	4.543264	.0233389	194.66	0.000	4.497521	4.589008
891	4.540381	.0244044	186.05	0.000	4.492549	4.588213
892	4.537498	.0255021	177.93	0.000	4.487515	4.587481
893	4.534615	.0266628	170.29	0.000	4.482425	4.586805
894	4.531732	.0277788	163.14	0.000	4.477286	4.586177
895	4.528849	.0289515	156.43	0.000	4.472105	4.585593
896	4.525966	.0301435	150.15	0.000	4.466885	4.585046
897	4.523082	.0313527	144.26	0.000	4.461632	4.584532

898	4.520199	.032577	138.75	0.000	4.45635	4.584049
899	4.517316	.0338149	133.59	0.000	4.45104	4.583592
900	4.514433	.0350649	128.74	0.000	4.445707	4.583159
901	4.51155	.0363258	124.20	0.000	4.440353	4.582747
902	4.508667	.0375965	119.92	0.000	4.434979	4.582355
903	4.62396	.0273761	168.90	0.000	4.570304	4.677616
904	4.62097	.0262152	176.27	0.000	4.569589	4.672351
905	4.617981	.0250827	184.11	0.000	4.56882	4.667142
906	4.614991	.0239827	192.43	0.000	4.567986	4.661996
907	4.612002	.0229198	201.22	0.000	4.56708	4.656924
908	4.609012	.0218995	210.46	0.000	4.56609	4.651934
909	4.606023	.020928	220.09	0.000	4.565004	4.647041
910	4.603033	.0200123	230.01	0.000	4.56381	4.642256
911	4.600043	.0191606	240.08	0.000	4.562489	4.637597
912	4.597054	.0183816	250.09	0.000	4.561027	4.633081
913	4.594064	.017685	259.77	0.000	4.559402	4.628726
914	4.591075	.0170809	268.78	0.000	4.557597	4.624553
915	4.588085	.0165794	276.73	0.000	4.555559	4.62058
916	4.585096	.0161901	283.20	0.000	4.553364	4.616828
917	4.582106	.0159211	287.80	0.000	4.550901	4.613311
918	4.579117	.0157787	290.21	0.000	4.548191	4.610042
919	4.576127	.0157662	290.25	0.000	4.545226	4.607028
920	4.573138	.0158839	287.91	0.000	4.542006	4.604269
921	4.570148	.0161291	283.35	0.000	4.538536	4.60176
922	4.567158	.0164959	276.87	0.000	4.534827	4.59949
923	4.564169	.0169767	268.85	0.000	4.530895	4.597443
924	4.561179	.0175619	259.72	0.000	4.526759	4.5956
925	4.55819	.0182415	249.88	0.000	4.522437	4.593943
926	4.5552	.0190055	239.68	0.000	4.51795	4.59245
927	4.552211	.019844	229.40	0.000	4.513317	4.591104
928	4.549221	.0207481	219.26	0.000	4.508556	4.589887
929	4.546232	.0217095	209.41	0.000	4.503682	4.588781
930	4.543242	.022721	199.96	0.000	4.49871	4.587774
931	4.540253	.0237762	190.96	0.000	4.493652	4.586853
932	4.537263	.0248694	182.44	0.000	4.48852	4.586006
933	4.534273	.025996	174.42	0.000	4.483322	4.582225
934	4.531284	.0271518	166.89	0.000	4.478067	4.5845
935	4.528294	.0283332	159.82	0.000	4.472762	4.583826
936	4.525305	.0295371	153.21	0.000	4.467413	4.583196
937	4.522315	.0307608	147.02	0.000	4.462025	4.582605
938	4.519326	.0320022	141.22	0.000	4.456603	4.582049
939	4.516336	.0332592	135.79	0.000	4.451149	4.581523
940	4.513347	.0345301	130.71	0.000	4.445669	4.581024
941	4.510357	.0358135	125.94	0.000	4.440164	4.58055
942	4.507367	.037108	121.47	0.000	4.434637	4.580098
943	4.504378	.0384125	117.26	0.000	4.429091	4.579665
944	4.623928	.0281147	164.47	0.000	4.568824	4.679031
945	4.620832	.0269189	171.66	0.000	4.568072	4.673592
946	4.617736	.0257518	179.32	0.000	4.567263	4.668208
947	4.61464	.0246175	187.45	0.000	4.56639	4.662889
948	4.611544	.0235206	196.06	0.000	4.565444	4.657643
949	4.608448	.0224667	205.12	0.000	4.564414	4.652482
950	4.605352	.0214621	214.58	0.000	4.563287	4.647417
951	4.602256	.0205141	224.35	0.000	4.562049	4.642463
952	4.59916	.0196307	234.28	0.000	4.560685	4.637636
953	4.596064	.0188213	244.20	0.000	4.559175	4.632953
954	4.592968	.0180956	253.82	0.000	4.557501	4.628435
955	4.589872	.0174641	262.82	0.000	4.555643	4.624101
956	4.586776	.0169373	270.81	0.000	4.55358	4.619973
957	4.58368	.0165253	277.37	0.000	4.551291	4.616069
958	4.580584	.0162369	282.11	0.000	4.548761	4.612408
959	4.577488	.0160786	284.69	0.000	4.545975	4.609002
960	4.574392	.0160543	284.93	0.000	4.542926	4.605858
961	4.571296	.0161646	282.80	0.000	4.539614	4.602978
962	4.5682	.0164069	278.43	0.000	4.536044	4.600357
963	4.565104	.0167753	272.13	0.000	4.532225	4.597983
964	4.562008	.0172618	264.28	0.000	4.528176	4.595841
965	4.558912	.0178568	255.30	0.000	4.523914	4.593911
966	4.555817	.0185498	245.60	0.000	4.51946	4.592173
967	4.552721	.0193303	235.52	0.000	4.514834	4.590607
968	4.549625	.0201881	225.36	0.000	4.510057	4.589193
969	4.546529	.0211139	215.33	0.000	4.505146	4.587911
970	4.543433	.022099	205.59	0.000	4.500119	4.586746

971	4.540337	.0231359	196.25	0.000	4.494991	4.585682
972	4.537241	.024218	187.35	0.000	4.489774	4.584707
973	4.534145	.0253394	178.94	0.000	4.484448	4.583809
974	4.531049	.0264952	171.01	0.000	4.479119	4.582978
975	4.527953	.0276811	163.58	0.000	4.473699	4.582207
976	4.524857	.0288933	156.61	0.000	4.468227	4.581487
977	4.521761	.0301287	150.08	0.000	4.46271	4.580812
978	4.518665	.0313845	143.98	0.000	4.457152	4.580178
979	4.515569	.0326585	138.27	0.000	4.45156	4.579578
980	4.512473	.0339484	132.92	0.000	4.445935	4.579011
981	4.509377	.0352527	127.92	0.000	4.440283	4.578471
982	4.506281	.0365697	123.22	0.000	4.434606	4.577956
983	4.503185	.0378981	118.82	0.000	4.428906	4.577464
984	4.500089	.0392369	114.69	0.000	4.423186	4.576992
985	4.623896	.0288595	160.22	0.000	4.567332	4.680459
986	4.620693	.0276287	167.24	0.000	4.566542	4.674845
987	4.617491	.0264268	174.73	0.000	4.565695	4.669287
988	4.614289	.0252579	182.69	0.000	4.564784	4.663793
989	4.611086	.0241269	191.12	0.000	4.563798	4.658374
990	4.607884	.0230392	200.00	0.000	4.562728	4.65304
991	4.604681	.0220013	209.29	0.000	4.56156	4.647803
992	4.601479	.0210207	218.90	0.000	4.560279	4.642679
993	4.598277	.0201056	228.71	0.000	4.55887	4.637683
994	4.595074	.0192654	238.51	0.000	4.557315	4.632834
995	4.591872	.0185104	248.07	0.000	4.555592	4.628152
996	4.588669	.0178513	257.05	0.000	4.553682	4.623657
997	4.585467	.0172991	265.07	0.000	4.551561	4.619373
998	4.582265	.0168644	271.71	0.000	4.549211	4.615318
999	4.579062	.0165562	276.58	0.000	4.546613	4.611512
1000	4.57586	.0163819	279.32	0.000	4.543752	4.607968
1001	4.572658	.0163457	279.75	0.000	4.540621	4.604695
1002	4.569455	.0164485	277.80	0.000	4.537217	4.601694
1003	4.566253	.0166877	273.63	0.000	4.533546	4.59896
1004	4.56305	.0170576	267.51	0.000	4.529618	4.596483
1005	4.559848	.0175499	259.82	0.000	4.525451	4.594245
1006	4.556646	.0181547	250.99	0.000	4.521063	4.592228
1007	4.553443	.0188612	241.42	0.000	4.516476	4.59041
1008	4.550241	.0196583	231.47	0.000	4.511711	4.58877
1009	4.547038	.0205356	221.42	0.000	4.506789	4.587288
1010	4.543836	.0214833	211.51	0.000	4.50173	4.585943
1011	4.540634	.0224923	201.87	0.000	4.49655	4.584718
1012	4.537431	.023555	192.63	0.000	4.491264	4.583598
1013	4.534229	.0246642	183.84	0.000	4.485888	4.58257
1014	4.531027	.025814	175.53	0.000	4.480432	4.581621
1015	4.527824	.0269993	167.70	0.000	4.474906	4.580742
1016	4.524622	.0282156	160.36	0.000	4.46932	4.579923
1017	4.521419	.0294589	153.48	0.000	4.463681	4.579158
1018	4.518217	.0307261	147.05	0.000	4.457995	4.578439
1019	4.515015	.0320143	141.03	0.000	4.452268	4.577762
1020	4.511812	.0333211	135.40	0.000	4.446504	4.57712
1021	4.50861	.0346443	130.14	0.000	4.440708	4.576512
1022	4.505407	.0359822	125.21	0.000	4.434884	4.575931
1023	4.502205	.0373332	120.60	0.000	4.429033	4.575377
1024	4.499003	.0386959	116.27	0.000	4.42316	4.574845
1025	4.4958	.040069	112.20	0.000	4.417266	4.574334
1026	4.623864	.0296102	156.16	0.000	4.565829	4.681899
1027	4.620555	.0283441	163.02	0.000	4.565001	4.676108
1028	4.617246	.0271072	170.33	0.000	4.564117	4.670375
1029	4.613937	.0259036	178.12	0.000	4.563167	4.664707
1030	4.610628	.0247381	186.38	0.000	4.562143	4.659114
1031	4.60732	.0236165	195.09	0.000	4.561032	4.653607
1032	4.604011	.0225452	204.21	0.000	4.559823	4.648199
1033	4.600702	.0215318	213.67	0.000	4.5585	4.642904
1034	4.597393	.0205848	223.34	0.000	4.557048	4.637739
1035	4.594084	.0197138	233.04	0.000	4.555446	4.632723
1036	4.590776	.0189293	242.52	0.000	4.553675	4.627876
1037	4.587467	.0182425	251.47	0.000	4.551712	4.623221
1038	4.584158	.0176647	259.51	0.000	4.549536	4.61878
1039	4.580849	.0172069	266.22	0.000	4.547124	4.614574
1040	4.57754	.0168789	271.20	0.000	4.544458	4.610622
1041	4.574232	.0166884	274.10	0.000	4.541523	4.60694
1042	4.570923	.0166401	274.69	0.000	4.538309	4.603537
1043	4.567614	.0167352	272.93	0.000	4.534814	4.600414

1044	4.564305	.0169713	268.94	0.000	4.531042	4.597568
1045	4.560996	.0173427	262.99	0.000	4.527005	4.594987
1046	4.557688	.0178408	255.46	0.000	4.52272	4.592655
1047	4.554379	.0184555	246.78	0.000	4.518207	4.590551
1048	4.55107	.0191755	237.34	0.000	4.513487	4.588653
1049	4.547761	.0199895	227.51	0.000	4.508582	4.58694
1050	4.544452	.0208864	217.58	0.000	4.503516	4.585389
1051	4.541144	.0218561	207.77	0.000	4.498306	4.583981
1052	4.537835	.0228894	198.25	0.000	4.492972	4.582697
1053	4.534526	.0239779	189.11	0.000	4.48753	4.581522
1054	4.531217	.0251145	180.42	0.000	4.481994	4.580441
1055	4.527908	.026293	172.21	0.000	4.476375	4.579442
1056	4.5246	.027508	164.48	0.000	4.470685	4.578514
1057	4.521291	.0287549	157.24	0.000	4.464932	4.577649
1058	4.517982	.0300297	150.45	0.000	4.459125	4.576839
1059	4.514673	.031329	144.11	0.000	4.453269	4.576077
1060	4.511364	.0326498	138.17	0.000	4.447372	4.575357
1061	4.508056	.0339897	132.63	0.000	4.441437	4.574674
1062	4.504747	.0353465	127.45	0.000	4.435469	4.574025
1063	4.501438	.0367183	122.59	0.000	4.429471	4.573404
1064	4.498129	.0381035	118.05	0.000	4.423448	4.572811
1065	4.49482	.0395006	113.79	0.000	4.4174	4.57224
1066	4.491512	.0409086	109.79	0.000	4.411332	4.571691
1067	4.623832	.0303663	152.27	0.000	4.564315	4.683348
1068	4.620416	.0290648	158.97	0.000	4.56345	4.677382
1069	4.617001	.0277926	166.12	0.000	4.562529	4.671474
1070	4.613586	.0265541	173.74	0.000	4.561541	4.665631
1071	4.610171	.0253541	181.83	0.000	4.560478	4.659864
1072	4.606755	.0241983	190.38	0.000	4.559328	4.654183
1073	4.60334	.0230934	199.34	0.000	4.558078	4.648603
1074	4.599925	.0220471	208.64	0.000	4.556713	4.643137
1075	4.59651	.0210681	218.17	0.000	4.555217	4.637802
1076	4.593095	.0201661	227.76	0.000	4.55357	4.632619
1077	4.589679	.019352	237.17	0.000	4.55175	4.627609
1078	4.586264	.0186372	246.08	0.000	4.549736	4.622792
1079	4.582849	.0180337	254.13	0.000	4.547504	4.618194
1080	4.579434	.0175528	260.90	0.000	4.545031	4.613836
1081	4.576018	.0172048	265.97	0.000	4.542298	4.609739
1082	4.572603	.016998	269.01	0.000	4.539288	4.605919
1083	4.569188	.0169375	269.77	0.000	4.535991	4.602385
1084	4.565773	.0170248	268.18	0.000	4.532405	4.599141
1085	4.562358	.0172577	264.37	0.000	4.528533	4.596182
1086	4.558942	.0176305	258.58	0.000	4.524387	4.593497
1087	4.555527	.0181344	251.21	0.000	4.519984	4.59107
1088	4.552112	.018759	242.66	0.000	4.515345	4.588879
1089	4.548697	.0194927	233.35	0.000	4.510492	4.586902
1090	4.545281	.0203236	223.65	0.000	4.505448	4.585115
1091	4.541866	.0212403	213.83	0.000	4.500236	4.583497
1092	4.538451	.0222323	204.14	0.000	4.494877	4.582026
1093	4.535036	.0232899	194.72	0.000	4.489389	4.580683
1094	4.531621	.0244045	185.69	0.000	4.483789	4.579453
1095	4.528205	.0255688	177.10	0.000	4.478091	4.578319
1096	4.52479	.0267762	168.99	0.000	4.47231	4.57727
1097	4.521375	.0280212	161.36	0.000	4.466454	4.576295
1098	4.51796	.0292989	154.20	0.000	4.460535	4.575385
1099	4.514544	.0306053	147.51	0.000	4.454559	4.57453
1100	4.511129	.0319369	141.25	0.000	4.448534	4.573724
1101	4.507714	.0332907	135.40	0.000	4.442466	4.572963
1102	4.504299	.0346639	129.94	0.000	4.436359	4.572239
1103	4.500884	.0360545	124.84	0.000	4.430218	4.571549
1104	4.497468	.0374605	120.06	0.000	4.424047	4.57089
1105	4.494053	.0388801	115.59	0.000	4.417849	4.570257
1106	4.490638	.0403121	111.40	0.000	4.411628	4.569648
1107	4.487223	.041755	107.47	0.000	4.405384	4.569061
1108	4.623799	.0311273	148.54	0.000	4.562791	4.684808
1109	4.620278	.0297902	155.09	0.000	4.56189	4.678666
1110	4.616756	.0284827	162.09	0.000	4.560931	4.672581
1111	4.613235	.0272091	169.55	0.000	4.559906	4.666563
1112	4.609713	.0259744	177.47	0.000	4.558804	4.660622
1113	4.606191	.0247843	185.85	0.000	4.557615	4.654768
1114	4.60267	.0236457	194.65	0.000	4.556325	4.649014
1115	4.599148	.0225664	203.81	0.000	4.554919	4.643377
1116	4.595626	.0215551	213.20	0.000	4.553379	4.637874

1117	4.592105	.0206221	222.68	0.000	4.551686	4.632523
1118	4.588583	.0197782	232.00	0.000	4.549819	4.627348
1119	4.585061	.0190354	240.87	0.000	4.547753	4.62237
1120	4.58154	.018406	248.92	0.000	4.545465	4.617615
1121	4.578018	.0179018	255.73	0.000	4.542931	4.613105
1122	4.574497	.0175337	260.90	0.000	4.540131	4.608862
1123	4.570975	.0173104	264.06	0.000	4.537047	4.604903
1124	4.567453	.0172376	264.97	0.000	4.533668	4.601238
1125	4.563932	.017317	263.55	0.000	4.529991	4.597872
1126	4.56041	.0175467	259.90	0.000	4.526019	4.594801
1127	4.556888	.0179208	254.28	0.000	4.521764	4.592012
1128	4.553367	.0184306	247.05	0.000	4.517243	4.58949
1129	4.549845	.0190652	238.65	0.000	4.512478	4.587212
1130	4.546323	.0198126	229.47	0.000	4.507491	4.585155
1131	4.542802	.0206605	219.88	0.000	4.502308	4.583296
1132	4.53928	.0215972	210.18	0.000	4.49695	4.58161
1133	4.535758	.0226116	200.59	0.000	4.491441	4.580076
1134	4.532237	.0236937	191.28	0.000	4.485798	4.578676
1135	4.528715	.0248346	182.35	0.000	4.48004	4.57739
1136	4.525194	.0260267	173.87	0.000	4.474182	4.576205
1137	4.521672	.0272633	165.85	0.000	4.468237	4.575107
1138	4.51815	.0285384	158.32	0.000	4.462216	4.574085
1139	4.514629	.0298473	151.26	0.000	4.456129	4.573128
1140	4.511107	.0311856	144.65	0.000	4.449984	4.57223
1141	4.507585	.0325497	138.48	0.000	4.443789	4.571382
1142	4.504064	.0339366	132.72	0.000	4.437549	4.570578
1143	4.500542	.0353435	127.34	0.000	4.43127	4.569814
1144	4.49702	.0367681	122.31	0.000	4.424956	4.569085
1145	4.493499	.0382084	117.60	0.000	4.418612	4.568386
1146	4.489977	.0396629	113.20	0.000	4.412239	4.567715
1147	4.486456	.0411298	109.08	0.000	4.405843	4.567068
1148	4.482934	.042608	105.21	0.000	4.399424	4.566444
1149	4.623767	.0318931	144.98	0.000	4.561258	4.686277
1150	4.620139	.0305201	151.38	0.000	4.560321	4.679958
1151	4.616511	.0291771	158.22	0.000	4.559325	4.673697
1152	4.612883	.0278683	165.52	0.000	4.558262	4.667504
1153	4.609255	.0265987	173.29	0.000	4.557123	4.661388
1154	4.605627	.0253743	181.51	0.000	4.555894	4.65536
1155	4.601999	.0242018	190.15	0.000	4.554564	4.649434
1156	4.598371	.0230893	199.16	0.000	4.553117	4.643625
1157	4.594743	.0220457	208.42	0.000	4.551534	4.637952
1158	4.591115	.0210814	217.78	0.000	4.549796	4.632434
1159	4.587487	.0202077	227.02	0.000	4.54788	4.627093
1160	4.583859	.0194368	235.83	0.000	4.545763	4.621954
1161	4.580231	.0187813	243.87	0.000	4.54342	4.617041
1162	4.576603	.0182538	250.72	0.000	4.540826	4.612379
1163	4.572975	.0178654	255.97	0.000	4.537959	4.60799
1164	4.569347	.0176256	259.25	0.000	4.534801	4.603892
1165	4.565718	.0175403	260.30	0.000	4.53134	4.600097
1166	4.56209	.0176117	259.04	0.000	4.527572	4.596609
1167	4.558462	.0178381	255.55	0.000	4.5235	4.593424
1168	4.554834	.0182135	250.08	0.000	4.519136	4.590532
1169	4.551206	.0187292	243.00	0.000	4.514498	4.587915
1170	4.547578	.0193738	234.73	0.000	4.509606	4.58555
1171	4.54395	.020135	225.67	0.000	4.504486	4.583414
1172	4.540322	.0210001	216.20	0.000	4.499163	4.581482
1173	4.536694	.0219569	206.62	0.000	4.493659	4.579729
1174	4.533066	.0229938	197.14	0.000	4.487999	4.578133
1175	4.529438	.0241006	187.94	0.000	4.482202	4.576674
1176	4.52581	.0252681	179.11	0.000	4.476285	4.575334
1177	4.522182	.0264882	170.72	0.000	4.470266	4.574098
1178	4.518554	.027754	162.81	0.000	4.464157	4.572951
1179	4.514926	.0290596	155.37	0.000	4.45797	4.571881
1180	4.511298	.0303998	148.40	0.000	4.451715	4.57088
1181	4.50767	.0317702	141.88	0.000	4.445401	4.569938
1182	4.504041	.0331671	135.80	0.000	4.439035	4.569048
1183	4.500413	.0345873	130.12	0.000	4.432624	4.568203
1184	4.496785	.036028	124.81	0.000	4.426172	4.567399
1185	4.493157	.0374869	119.86	0.000	4.419684	4.56663
1186	4.489529	.0389619	115.23	0.000	4.413165	4.565893
1187	4.485901	.0404512	110.90	0.000	4.406618	4.565184
1188	4.482273	.0419534	106.84	0.000	4.400046	4.5645
1189	4.478645	.0434671	103.04	0.000	4.393451	4.563839

1190	4.623735	.0326631	141.56	0.000	4.559717	4.687754
1191	4.620001	.0312542	147.82	0.000	4.558744	4.681258
1192	4.616266	.0298755	154.52	0.000	4.557711	4.674821
1193	4.612532	.0285314	161.67	0.000	4.556611	4.668452
1194	4.608797	.0272268	169.27	0.000	4.555434	4.662161
1195	4.605063	.0259678	177.34	0.000	4.554167	4.655959
1196	4.601328	.0247614	185.83	0.000	4.552797	4.64986
1197	4.597594	.0236156	194.68	0.000	4.551308	4.64388
1198	4.59386	.0225396	203.81	0.000	4.549683	4.638036
1199	4.590125	.021544	213.06	0.000	4.5479	4.632351
1200	4.586391	.0206403	222.21	0.000	4.545936	4.626845
1201	4.582656	.0198412	230.97	0.000	4.543768	4.621544
1202	4.578922	.0191596	238.99	0.000	4.54137	4.616474
1203	4.575187	.0186085	245.87	0.000	4.538715	4.611659
1204	4.571453	.0181999	251.18	0.000	4.535782	4.607124
1205	4.567718	.0179433	254.56	0.000	4.53255	4.602886
1206	4.563984	.0178454	255.75	0.000	4.529007	4.59896
1207	4.560249	.0179088	254.64	0.000	4.525149	4.59535
1208	4.556515	.0181318	251.30	0.000	4.520977	4.592052
1209	4.55278	.0185086	245.98	0.000	4.516504	4.589056
1210	4.549046	.0190301	239.04	0.000	4.511747	4.586344
1211	4.545311	.0196848	230.90	0.000	4.50673	4.583893
1212	4.541577	.0204599	221.97	0.000	4.501476	4.581677
1213	4.537842	.0213423	212.62	0.000	4.496012	4.579672
1214	4.534108	.0223192	203.15	0.000	4.490363	4.577853
1215	4.530373	.0233789	193.78	0.000	4.484552	4.576195
1216	4.526639	.0245106	184.68	0.000	4.478599	4.574679
1217	4.522904	.0257047	175.96	0.000	4.472524	4.573285
1218	4.51917	.026953	167.67	0.000	4.466343	4.571997
1219	4.515436	.0282484	159.85	0.000	4.46007	4.570801
1220	4.511701	.0295845	152.50	0.000	4.453716	4.569686
1221	4.507967	.0309562	145.62	0.000	4.447293	4.56864
1222	4.504232	.0323589	139.20	0.000	4.44081	4.567654
1223	4.500498	.0337888	133.19	0.000	4.434273	4.566722
1224	4.496763	.0352425	127.59	0.000	4.427689	4.565837
1225	4.493029	.0367173	122.37	0.000	4.421064	4.564993
1226	4.489294	.0382106	117.49	0.000	4.414403	4.564186
1227	4.48556	.0397205	112.93	0.000	4.407709	4.56341
1228	4.481825	.041245	108.66	0.000	4.400987	4.562664
1229	4.478091	.0427826	104.67	0.000	4.394238	4.561943
1230	4.474356	.0443319	100.93	0.000	4.387467	4.561245
1231	4.623703	.0334371	138.28	0.000	4.558168	4.689239
1232	4.619862	.0319922	144.41	0.000	4.557159	4.682566
1233	4.616021	.0305777	150.96	0.000	4.55609	4.675953
1234	4.612181	.0291981	157.96	0.000	4.554953	4.669408
1235	4.60834	.0278584	165.42	0.000	4.553738	4.662941
1236	4.604499	.0265648	173.33	0.000	4.552433	4.656565
1237	4.600658	.0253243	181.67	0.000	4.551023	4.650293
1238	4.596817	.0241451	190.38	0.000	4.549493	4.644141
1239	4.592976	.0230367	199.38	0.000	4.547825	4.638127
1240	4.589135	.0220096	208.51	0.000	4.545997	4.632273
1241	4.585294	.0210759	217.56	0.000	4.543986	4.626602
1242	4.581453	.0202483	226.26	0.000	4.541767	4.621139
1243	4.577612	.0195406	234.26	0.000	4.539314	4.615911
1244	4.573772	.0189659	241.16	0.000	4.536599	4.610944
1245	4.569931	.0185368	246.53	0.000	4.533599	4.606262
1246	4.56609	.0182635	250.01	0.000	4.530294	4.601886
1247	4.562249	.0181529	251.32	0.000	4.52667	4.597828
1248	4.558408	.0182082	250.35	0.000	4.522721	4.594095
1249	4.554567	.0184278	247.16	0.000	4.518449	4.590685
1250	4.550726	.0188059	241.98	0.000	4.513867	4.587585
1251	4.546885	.0193333	235.18	0.000	4.508993	4.584778
1252	4.543044	.019998	227.17	0.000	4.503849	4.58224
1253	4.539204	.0207871	218.37	0.000	4.498462	4.579946
1254	4.535363	.0216868	209.13	0.000	4.492857	4.577868
1255	4.531522	.0226841	199.77	0.000	4.487062	4.575982
1256	4.527681	.0237666	190.51	0.000	4.481099	4.574263
1257	4.52384	.0249233	181.51	0.000	4.474991	4.572689
1258	4.519999	.0261443	172.89	0.000	4.468757	4.571241
1259	4.516158	.027421	164.70	0.000	4.462414	4.569902
1260	4.512317	.028746	156.97	0.000	4.455976	4.568658
1261	4.508476	.030113	149.72	0.000	4.449456	4.567497
1262	4.504636	.0315164	142.93	0.000	4.442865	4.566406

1263	4.500795	.0329516	136.59	0.000	4.436211	4.565379
1264	4.496954	.0344146	130.67	0.000	4.429502	4.564405
1265	4.493113	.0359021	125.15	0.000	4.422746	4.56348
1266	4.489272	.037411	120.00	0.000	4.415948	4.562596
1267	4.485431	.038939	115.19	0.000	4.409112	4.56175
1268	4.48159	.0404839	110.70	0.000	4.402243	4.560937
1269	4.477749	.0420437	106.50	0.000	4.395345	4.560153
1270	4.473908	.043617	102.57	0.000	4.388421	4.559396
1271	4.470067	.0452022	98.89	0.000	4.381473	4.558662
1272	4.623671	.0342149	135.14	0.000	4.556611	4.690731
1273	4.619724	.0327338	141.13	0.000	4.555567	4.683881
1274	4.615777	.0312834	147.55	0.000	4.554462	4.677091
1275	4.611829	.0298681	154.41	0.000	4.553289	4.67037
1276	4.607882	.0284933	161.72	0.000	4.552036	4.663728
1277	4.603935	.0271649	169.48	0.000	4.550692	4.657177
1278	4.599987	.0258903	177.67	0.000	4.549243	4.650731
1279	4.59604	.0246776	186.24	0.000	4.547673	4.644407
1280	4.592093	.0235365	195.10	0.000	4.545962	4.638223
1281	4.588145	.022478	204.12	0.000	4.544089	4.632201
1282	4.584198	.0215141	213.08	0.000	4.542031	4.626365
1283	4.580251	.0206582	221.72	0.000	4.539761	4.62074
1284	4.576303	.0199241	229.69	0.000	4.537253	4.615354
1285	4.572356	.0193258	236.59	0.000	4.534478	4.610234
1286	4.568409	.0188761	242.02	0.000	4.531412	4.605495
1287	4.564461	.0185859	245.59	0.000	4.528034	4.600889
1288	4.560514	.0184627	247.01	0.000	4.524328	4.5967
1289	4.556567	.0185098	246.17	0.000	4.520288	4.592845
1290	4.55262	.0187259	243.12	0.000	4.515917	4.589322
1291	4.548672	.0191053	238.08	0.000	4.511227	4.586118
1292	4.544725	.0196385	231.42	0.000	4.506234	4.583216
1293	4.540778	.0203134	223.54	0.000	4.500964	4.580591
1294	4.53683	.0211165	214.85	0.000	4.495443	4.578218
1295	4.532883	.0220337	205.72	0.000	4.489698	4.576068
1296	4.528936	.0230514	196.47	0.000	4.483756	4.574116
1297	4.524988	.024157	187.32	0.000	4.477642	4.572335
1298	4.521041	.0253388	178.42	0.000	4.471378	4.570704
1299	4.517094	.0265868	169.90	0.000	4.464985	4.569203
1300	4.513146	.027892	161.81	0.000	4.458479	4.567814
1301	4.509199	.0292469	154.18	0.000	4.451876	4.566522
1302	4.505252	.0306447	147.02	0.000	4.445189	4.565314
1303	4.501304	.03208	140.31	0.000	4.438429	4.56418
1304	4.497357	.0335479	134.06	0.000	4.431605	4.56311
1305	4.49341	.0350443	128.22	0.000	4.424724	4.562095
1306	4.489463	.0365656	122.78	0.000	4.417795	4.56113
1307	4.485515	.038109	117.70	0.000	4.410823	4.560208
1308	4.481568	.0396718	112.97	0.000	4.403813	4.559323
1309	4.477621	.0412519	108.54	0.000	4.396768	4.558473
1310	4.473673	.0428473	104.41	0.000	4.389694	4.557652
1311	4.469726	.0444563	100.54	0.000	4.382593	4.556859
1312	4.465779	.0460776	96.92	0.000	4.375468	4.556089
1313	4.623639	.0349962	132.12	0.000	4.555048	4.69223
1314	4.619585	.0334788	137.99	0.000	4.553968	4.685203
1315	4.615532	.0319923	144.27	0.000	4.552828	4.678235
1316	4.611478	.0305414	150.99	0.000	4.551618	4.671338
1317	4.607424	.0291312	158.16	0.000	4.550328	4.66452
1318	4.60337	.027768	165.78	0.000	4.548946	4.657795
1319	4.599317	.0264591	173.83	0.000	4.547458	4.651176
1320	4.595263	.0252129	182.26	0.000	4.545847	4.644679
1321	4.591209	.0240392	190.99	0.000	4.544093	4.638325
1322	4.587156	.022949	199.88	0.000	4.542176	4.632135
1323	4.583102	.021955	208.75	0.000	4.540071	4.626133
1324	4.579048	.0210706	217.32	0.000	4.537751	4.620346
1325	4.574994	.0203101	225.26	0.000	4.535187	4.614801
1326	4.570941	.019688	232.17	0.000	4.532353	4.609528
1327	4.566887	.0192178	237.64	0.000	4.529221	4.604553
1328	4.562833	.0189106	241.28	0.000	4.525769	4.599897
1329	4.558779	.0187746	242.82	0.000	4.521982	4.595577
1330	4.554726	.0188134	242.10	0.000	4.517852	4.591599
1331	4.550672	.019026	239.18	0.000	4.513382	4.587962
1332	4.546618	.0194067	234.28	0.000	4.508582	4.584655
1333	4.542564	.0199458	227.75	0.000	4.503471	4.581657
1334	4.538511	.0206309	219.99	0.000	4.498075	4.578947
1335	4.534457	.0214481	211.42	0.000	4.49242	4.576494

1336	4.530403	.0223828	202.41	0.000	4.486534	4.574273
1337	4.52635	.0234211	193.26	0.000	4.480445	4.572254
1338	4.522296	.0245497	184.21	0.000	4.474179	4.570412
1339	4.518242	.0257568	175.42	0.000	4.46776	4.568725
1340	4.514188	.0270319	166.99	0.000	4.461207	4.56717
1341	4.510135	.0283659	159.00	0.000	4.454539	4.565731
1342	4.506081	.0297507	151.46	0.000	4.447771	4.564391
1343	4.502027	.0311797	144.39	0.000	4.440916	4.563138
1344	4.497973	.032647	137.78	0.000	4.433986	4.56196
1345	4.49392	.0341477	131.60	0.000	4.426991	4.560848
1346	4.489866	.0356776	125.85	0.000	4.419939	4.559793
1347	4.485812	.037233	120.48	0.000	4.412837	4.558788
1348	4.481759	.0388811	115.48	0.000	4.40569	4.557827
1349	4.477705	.0404088	110.81	0.000	4.398505	4.556905
1350	4.473651	.0420242	106.45	0.000	4.391285	4.556017
1351	4.469597	.0436553	102.38	0.000	4.384034	4.55516
1352	4.465544	.0453003	98.58	0.000	4.376757	4.554331
1353	4.46149	.0469579	95.01	0.000	4.369454	4.553526
1354	4.623607	.0357808	129.22	0.000	4.553478	4.693736
1355	4.619447	.0342269	134.97	0.000	4.552363	4.68653
1356	4.615287	.0327043	141.12	0.000	4.551187	4.679386
1357	4.611127	.0312176	147.71	0.000	4.549941	4.672312
1358	4.606966	.029772	154.74	0.000	4.548614	4.665318
1359	4.602806	.0283739	162.22	0.000	4.547194	4.658418
1360	4.598646	.0270306	170.13	0.000	4.545667	4.651625
1361	4.594486	.0257508	178.42	0.000	4.544015	4.644957
1362	4.590326	.0245443	187.02	0.000	4.54222	4.638432
1363	4.586166	.0234226	195.80	0.000	4.540258	4.632073
1364	4.582006	.0223982	204.57	0.000	4.538106	4.625905
1365	4.577845	.0214853	213.07	0.000	4.535735	4.619956
1366	4.573685	.0206984	220.97	0.000	4.533117	4.614253
1367	4.569525	.0200525	227.88	0.000	4.530223	4.608827
1368	4.565365	.0195615	233.38	0.000	4.527025	4.603705
1369	4.561205	.0192374	237.10	0.000	4.5235	4.598909
1370	4.557045	.0190885	238.73	0.000	4.519632	4.594457
1371	4.552884	.019119	238.13	0.000	4.515412	4.590357
1372	4.548724	.019328	235.34	0.000	4.510842	4.586607
1373	4.544564	.01971	230.57	0.000	4.505933	4.583195
1374	4.540404	.0202549	224.16	0.000	4.500705	4.580103
1375	4.536244	.0209503	216.52	0.000	4.495182	4.577306
1376	4.532084	.0217816	208.07	0.000	4.489393	4.574775
1377	4.527924	.022734	199.17	0.000	4.483366	4.572481
1378	4.523763	.0237929	190.13	0.000	4.47713	4.570397
1379	4.519603	.0249448	181.18	0.000	4.470712	4.568494
1380	4.515443	.0261773	172.49	0.000	4.464137	4.56675
1381	4.511283	.0274797	164.17	0.000	4.457424	4.565142
1382	4.507123	.0288425	156.27	0.000	4.450593	4.563653
1383	4.502963	.0302574	148.82	0.000	4.443659	4.562266
1384	4.498803	.0317177	141.84	0.000	4.436637	4.560968
1385	4.494642	.0332171	135.31	0.000	4.429538	4.559747
1386	4.490482	.0347508	129.22	0.000	4.422372	4.558593
1387	4.486322	.0363143	123.54	0.000	4.415147	4.557497
1388	4.482162	.037904	118.25	0.000	4.407871	4.556452
1389	4.478002	.0395167	113.32	0.000	4.40055	4.555453
1390	4.473842	.0411497	108.72	0.000	4.39319	4.554494
1391	4.469681	.0428007	104.43	0.000	4.385794	4.553569
1392	4.465521	.0444676	100.42	0.000	4.378366	4.552676
1393	4.461361	.0461488	96.67	0.000	4.370911	4.551811
1394	4.457201	.0478427	93.16	0.000	4.363431	4.550971
1395	4.623575	.0365684	126.44	0.000	4.551902	4.695248
1396	4.619308	.034978	132.06	0.000	4.550753	4.687864
1397	4.615042	.0334192	138.10	0.000	4.549541	4.680542
1398	4.610775	.0318965	144.55	0.000	4.548259	4.673291
1399	4.606509	.0304155	151.45	0.000	4.546895	4.666122
1400	4.602242	.0289823	158.79	0.000	4.545438	4.659046
1401	4.597976	.0276047	166.57	0.000	4.543871	4.65208
1402	4.593709	.0262912	174.72	0.000	4.542179	4.645239
1403	4.589442	.0250519	183.20	0.000	4.540342	4.638543
1404	4.585176	.0238984	191.86	0.000	4.538336	4.632016
1405	4.580909	.0228438	200.53	0.000	4.536136	4.625682
1406	4.576643	.0219022	208.96	0.000	4.533715	4.61957
1407	4.572376	.0210889	216.81	0.000	4.531043	4.61371
1408	4.56811	.0204191	223.72	0.000	4.528089	4.60813

1409	4.563843	.0199074	229.25	0.000	4.524825	4.602861
1410	4.559576	.0195661	233.03	0.000	4.521228	4.597925
1411	4.55531	.0194043	234.76	0.000	4.517278	4.593342
1412	4.551043	.0194264	234.27	0.000	4.512968	4.589118
1413	4.546777	.0196319	231.60	0.000	4.508299	4.585255
1414	4.54251	.0200151	226.95	0.000	4.503281	4.581739
1415	4.538244	.020566	220.67	0.000	4.497935	4.578552
1416	4.533977	.0212716	213.15	0.000	4.492285	4.575669
1417	4.52971	.0221171	204.81	0.000	4.486362	4.573059
1418	4.525444	.0230872	196.02	0.000	4.480194	4.570694
1419	4.521177	.0241668	187.08	0.000	4.473811	4.568543
1420	4.516911	.025342	178.24	0.000	4.467241	4.56658
1421	4.512644	.0266001	169.65	0.000	4.460509	4.564779
1422	4.508378	.0279299	161.42	0.000	4.453636	4.563119
1423	4.504111	.0293216	153.61	0.000	4.446642	4.56158
1424	4.499844	.0307669	146.26	0.000	4.439542	4.560146
1425	4.495578	.0322585	139.36	0.000	4.432352	4.558803
1426	4.491311	.0337903	132.92	0.000	4.425084	4.557539
1427	4.487045	.0353571	126.91	0.000	4.417746	4.556343
1428	4.482778	.0369544	121.31	0.000	4.410349	4.555208
1429	4.478512	.0385785	116.09	0.000	4.402899	4.554124
1430	4.474245	.040226	111.23	0.000	4.395403	4.553087
1431	4.469978	.0418943	106.70	0.000	4.387867	4.55209
1432	4.465712	.043581	102.47	0.000	4.380295	4.551129
1433	4.461445	.0452839	98.52	0.000	4.37269	4.5502
1434	4.457179	.0470014	94.83	0.000	4.365058	4.5493
1435	4.452912	.0487318	91.38	0.000	4.3574	4.548425
1436	4.623543	.0373589	123.76	0.000	4.550321	4.696765
1437	4.61917	.0357319	129.27	0.000	4.549137	4.689203
1438	4.614797	.0341367	135.19	0.000	4.54789	4.681704
1439	4.610424	.0325781	141.52	0.000	4.546572	4.674276
1440	4.606051	.0310614	148.29	0.000	4.545172	4.66693
1441	4.601678	.0295933	155.50	0.000	4.543676	4.65968
1442	4.597305	.0281811	163.13	0.000	4.542071	4.652539
1443	4.592932	.0268338	171.16	0.000	4.540339	4.645525
1444	4.588559	.0255617	179.51	0.000	4.538459	4.638659
1445	4.584186	.0243765	188.06	0.000	4.536409	4.631963
1446	4.579813	.0232915	196.63	0.000	4.534163	4.625463
1447	4.57544	.0223212	204.98	0.000	4.531691	4.619189
1448	4.571067	.0214813	212.79	0.000	4.528964	4.61317
1449	4.566694	.0207876	219.68	0.000	4.525951	4.607437
1450	4.562321	.0202551	225.24	0.000	4.522622	4.60202
1451	4.557948	.0198967	229.08	0.000	4.518951	4.596945
1452	4.553575	.0197219	230.89	0.000	4.514921	4.592229
1453	4.549202	.0197357	230.51	0.000	4.510521	4.587883
1454	4.544829	.0199376	227.95	0.000	4.505752	4.583906
1455	4.540456	.0203219	223.43	0.000	4.500626	4.580286
1456	4.536083	.0208787	217.26	0.000	4.495162	4.577005
1457	4.53171	.0215946	209.85	0.000	4.489385	4.574035
1458	4.527337	.0224544	201.62	0.000	4.483327	4.571347
1459	4.522964	.0234423	192.94	0.000	4.477018	4.56891
1460	4.518591	.0245428	184.11	0.000	4.470488	4.566694
1461	4.514218	.0257414	175.37	0.000	4.463766	4.56467
1462	4.509845	.0270251	166.88	0.000	4.456877	4.562814
1463	4.505472	.0283824	158.74	0.000	4.449844	4.561101
1464	4.501099	.0298032	151.03	0.000	4.442686	4.559513
1465	4.496726	.0312789	143.76	0.000	4.435421	4.558032
1466	4.492353	.032802	136.95	0.000	4.428062	4.556644
1467	4.48798	.0343663	130.59	0.000	4.420624	4.555337
1468	4.483607	.0359664	124.66	0.000	4.413115	4.5541
1469	4.479234	.0375976	119.14	0.000	4.405544	4.552924
1470	4.474861	.0392562	113.99	0.000	4.397921	4.551802
1471	4.470488	.0409388	109.20	0.000	4.39025	4.550727
1472	4.466115	.0426425	104.73	0.000	4.382538	4.549693
1473	4.461742	.044365	100.57	0.000	4.374789	4.548696
1474	4.457369	.0461041	96.68	0.000	4.367007	4.547732
1475	4.452996	.0478579	93.05	0.000	4.359197	4.546796
1476	4.448623	.0496251	89.64	0.000	4.35136	4.545887
1477	4.623511	.038152	121.19	0.000	4.548734	4.698287
1478	4.619031	.0364883	126.59	0.000	4.547516	4.690547
1479	4.614552	.0348568	132.39	0.000	4.546234	4.68287
1480	4.610073	.0332621	138.60	0.000	4.54488	4.675265
1481	4.605593	.0317098	145.24	0.000	4.543443	4.667743

1482	4.601114	.0302065	152.32	0.000	4.54191	4.660317
1483	4.596634	.0287598	159.83	0.000	4.540266	4.653002
1484	4.592155	.0273787	167.73	0.000	4.538494	4.645816
1485	4.587676	.0260736	175.95	0.000	4.536572	4.638779
1486	4.583196	.0248566	184.39	0.000	4.534478	4.631914
1487	4.578717	.0237412	192.86	0.000	4.532185	4.625249
1488	4.574237	.0227422	201.13	0.000	4.529663	4.618811
1489	4.569758	.0218758	208.90	0.000	4.526882	4.612634
1490	4.565279	.0211581	215.77	0.000	4.523809	4.606748
1491	4.560799	.0206047	221.35	0.000	4.520415	4.601184
1492	4.55632	.0202291	225.24	0.000	4.516671	4.595968
1493	4.55184	.0200413	227.12	0.000	4.51256	4.591121
1494	4.547361	.0200466	226.84	0.000	4.50807	4.586652
1495	4.542882	.0202449	224.40	0.000	4.503202	4.582561
1496	4.538402	.0206305	219.99	0.000	4.497967	4.578837
1497	4.533923	.0211932	213.93	0.000	4.492385	4.575461
1498	4.529443	.0219194	206.64	0.000	4.486482	4.572405
1499	4.524964	.0227935	198.52	0.000	4.480289	4.569638
1500	4.520484	.0237993	189.94	0.000	4.473839	4.56713
1501	4.516005	.0249206	181.22	0.000	4.467162	4.564849
1502	4.511526	.0261428	172.57	0.000	4.460287	4.562765
1503	4.507046	.0274523	164.18	0.000	4.453241	4.560852
1504	4.502567	.0288372	156.14	0.000	4.446047	4.559087
1505	4.498087	.0302872	148.51	0.000	4.438726	4.557449
1506	4.493608	.0317934	141.34	0.000	4.431294	4.555922
1507	4.489129	.0333482	134.61	0.000	4.423767	4.55449
1508	4.484649	.034945	128.33	0.000	4.416158	4.55314
1509	4.48017	.0365785	122.48	0.000	4.408477	4.551862
1510	4.47569	.0382438	117.03	0.000	4.400734	4.550647
1511	4.471211	.039937	111.96	0.000	4.392936	4.549486
1512	4.466732	.0416547	107.23	0.000	4.38509	4.548373
1513	4.462252	.043394	102.83	0.000	4.377201	4.547303
1514	4.457773	.0451524	98.73	0.000	4.369276	4.54627
1515	4.453293	.0469278	94.90	0.000	4.361317	4.54527
1516	4.448814	.0487182	91.32	0.000	4.353328	4.5443
1517	4.444335	.0505222	87.97	0.000	4.345313	4.543356
1518	4.623479	.0389477	118.71	0.000	4.547143	4.699815
1519	4.618893	.0372472	124.01	0.000	4.54589	4.691896
1520	4.614307	.0355792	129.69	0.000	4.544573	4.684041
1521	4.609721	.0339484	135.79	0.000	4.543184	4.676259
1522	4.605135	.0323604	142.31	0.000	4.54171	4.668561
1523	4.60055	.0308218	149.26	0.000	4.54014	4.660959
1524	4.595964	.0293405	156.64	0.000	4.538457	4.65347
1525	4.591378	.0279256	164.41	0.000	4.536645	4.646111
1526	4.586792	.0265876	172.52	0.000	4.534681	4.638903
1527	4.582206	.0253387	180.84	0.000	4.532543	4.631869
1528	4.57762	.0241928	189.21	0.000	4.530203	4.625037
1529	4.573035	.0231651	197.41	0.000	4.527632	4.618437
1530	4.568449	.022272	205.12	0.000	4.524796	4.612101
1531	4.563863	.0215303	211.97	0.000	4.521664	4.606062
1532	4.559277	.020956	217.56	0.000	4.518204	4.60035
1533	4.554691	.0205632	221.50	0.000	4.514388	4.594995
1534	4.550106	.0203624	223.46	0.000	4.510196	4.590015
1535	4.54552	.0203592	223.27	0.000	4.505616	4.585423
1536	4.540934	.0205538	220.93	0.000	4.500649	4.581219
1537	4.536348	.0209406	216.63	0.000	4.495305	4.577391
1538	4.531762	.0215092	210.69	0.000	4.489605	4.57392
1539	4.527176	.0222458	203.51	0.000	4.483575	4.570777
1540	4.522591	.0231343	195.49	0.000	4.477248	4.567933
1541	4.518005	.0241579	187.02	0.000	4.470656	4.565353
1542	4.513419	.0253003	178.39	0.000	4.463831	4.563007
1543	4.508833	.0265461	169.85	0.000	4.456804	4.560863
1544	4.504247	.0278814	161.55	0.000	4.449601	4.558894
1545	4.499661	.0292941	153.60	0.000	4.442246	4.557077
1546	4.495076	.0307734	146.07	0.000	4.434761	4.55539
1547	4.49049	.0323102	138.98	0.000	4.427163	4.553817
1548	4.485904	.0338968	132.34	0.000	4.419468	4.55234
1549	4.481318	.0355263	126.14	0.000	4.411688	4.550949
1550	4.476732	.0371932	120.36	0.000	4.403835	4.54963
1551	4.472147	.0388928	114.99	0.000	4.395918	4.548375
1552	4.467561	.0406207	109.98	0.000	4.387946	4.547176
1553	4.462975	.0423737	105.32	0.000	4.379924	4.546026
1554	4.458389	.0441487	100.99	0.000	4.371859	4.544919

1555	4.453803	.0459432	96.94	0.000	4.363756	4.54385
1556	4.449217	.047755	93.17	0.000	4.355619	4.542815
1557	4.444632	.0495821	89.64	0.000	4.347452	4.541811
1558	4.440046	.051423	86.34	0.000	4.339259	4.540833
1559	4.623447	.0397458	116.33	0.000	4.545546	4.701347
1560	4.618754	.0380084	121.52	0.000	4.544259	4.69325
1561	4.614062	.0363038	127.10	0.000	4.542908	4.685216
1562	4.60937	.0346368	133.08	0.000	4.541483	4.677257
1563	4.604678	.033013	139.48	0.000	4.539973	4.669382
1564	4.599985	.0314392	146.31	0.000	4.538366	4.661605
1565	4.595293	.0299233	153.57	0.000	4.536645	4.653942
1566	4.590601	.0284744	161.22	0.000	4.534792	4.64641
1567	4.585909	.0271034	169.20	0.000	4.532787	4.63903
1568	4.581216	.0258227	177.41	0.000	4.530605	4.631828
1569	4.576524	.0246462	185.69	0.000	4.528218	4.62483
1570	4.571832	.0235898	193.81	0.000	4.525597	4.618067
1571	4.56714	.02267	201.46	0.000	4.522707	4.611572
1572	4.562447	.0219043	208.29	0.000	4.519516	4.605379
1573	4.557755	.021309	213.89	0.000	4.51599	4.59952
1574	4.553063	.0208989	217.86	0.000	4.512102	4.594024
1575	4.548371	.020685	219.89	0.000	4.507829	4.588913
1576	4.543679	.0206733	219.78	0.000	4.50316	4.584197
1577	4.538986	.0208642	217.55	0.000	4.498093	4.579879
1578	4.534294	.0212522	213.36	0.000	4.49264	4.575948
1579	4.529602	.0218268	207.52	0.000	4.486822	4.572382
1580	4.52491	.0225738	200.45	0.000	4.480666	4.569153
1581	4.520217	.0234767	192.54	0.000	4.474204	4.566231
1582	4.515525	.0245183	184.17	0.000	4.46747	4.56358
1583	4.510833	.0256818	175.64	0.000	4.460498	4.561168
1584	4.506141	.0269512	167.20	0.000	4.453317	4.558964
1585	4.501448	.0283125	158.99	0.000	4.445957	4.55694
1586	4.496756	.029753	151.14	0.000	4.438441	4.555071
1587	4.492064	.0312617	143.69	0.000	4.430792	4.553336
1588	4.487372	.0328293	136.69	0.000	4.423027	4.551716
1589	4.482679	.0344477	130.13	0.000	4.415163	4.550196
1590	4.477987	.0361101	124.01	0.000	4.407213	4.547862
1591	4.473295	.0378106	118.31	0.000	4.399187	4.547402
1592	4.468603	.0395444	113.00	0.000	4.391097	4.546108
1593	4.46391	.0413073	108.07	0.000	4.38295	4.544871
1594	4.459218	.0430956	103.47	0.000	4.374752	4.543684
1595	4.454526	.0449065	99.20	0.000	4.366511	4.542541
1596	4.449834	.0467371	95.21	0.000	4.358231	4.541437
1597	4.445141	.0485854	91.49	0.000	4.349916	4.540367
1598	4.440449	.0504493	88.02	0.000	4.34157	4.539328
1599	4.435757	.0523272	84.77	0.000	4.333197	4.538316
1600	4.623415	.0405456	114.03	0.000	4.543946	4.702883
1601	4.618616	.0387718	119.12	0.000	4.542625	4.694607
1602	4.613817	.0370305	124.59	0.000	4.541239	4.686396
1603	4.609019	.0353272	130.47	0.000	4.539778	4.678259
1604	4.60422	.0336676	136.76	0.000	4.538233	4.670207
1605	4.599421	.0320585	143.47	0.000	4.536588	4.662255
1606	4.594623	.0305079	150.60	0.000	4.534828	4.654417
1607	4.589824	.029025	158.13	0.000	4.532936	4.646712
1608	4.585025	.027621	166.00	0.000	4.530889	4.639161
1609	4.580227	.0263083	174.10	0.000	4.528663	4.63179
1610	4.575428	.0251014	182.28	0.000	4.52623	4.624626
1611	4.570629	.0240161	190.32	0.000	4.523559	4.6177
1612	4.565831	.0230697	197.91	0.000	4.520615	4.611046
1613	4.561032	.0222798	204.72	0.000	4.517364	4.6047
1614	4.556233	.0216636	210.32	0.000	4.513773	4.598693
1615	4.551435	.0212362	214.32	0.000	4.509812	4.593057
1616	4.546636	.0210092	216.41	0.000	4.505459	4.587813
1617	4.541837	.0209889	216.39	0.000	4.5007	4.582975
1618	4.537039	.0211761	214.25	0.000	4.495534	4.578543
1619	4.53224	.0215653	210.16	0.000	4.489973	4.574507
1620	4.527441	.0221459	204.44	0.000	4.484036	4.570846
1621	4.522643	.0229033	197.47	0.000	4.477753	4.567532
1622	4.517844	.0238206	189.66	0.000	4.471156	4.564532
1623	4.513045	.0248803	181.39	0.000	4.464281	4.56181
1624	4.508247	.0260649	172.96	0.000	4.457161	4.559333
1625	4.503448	.0273581	164.61	0.000	4.449827	4.557069
1626	4.498649	.0287455	156.50	0.000	4.442309	4.554989
1627	4.493851	.0302139	148.73	0.000	4.434633	4.553069

1628	4.489052	.0317521	141.38	0.000	4.426819	4.551285
1629	4.484253	.0333505	134.46	0.000	4.418888	4.549619
1630	4.479455	.0350009	127.98	0.000	4.410854	4.548055
1631	4.474656	.0366962	121.94	0.000	4.402733	4.546579
1632	4.469857	.0384304	116.31	0.000	4.394535	4.54518
1633	4.465059	.0401986	111.07	0.000	4.386271	4.543847
1634	4.46026	.0419965	106.21	0.000	4.377949	4.542572
1635	4.455461	.0438203	101.68	0.000	4.369575	4.541348
1636	4.450663	.0456671	97.46	0.000	4.361157	4.540169
1637	4.445864	.047534	93.53	0.000	4.352699	4.539029
1638	4.441065	.0494189	89.87	0.000	4.344206	4.537925
1639	4.436267	.0513197	86.44	0.000	4.335682	4.536852
1640	4.431468	.0532348	83.24	0.000	4.32713	4.535806
1641	4.623382	.0413484	111.82	0.000	4.542341	4.704424
1642	4.618477	.0395371	116.81	0.000	4.540986	4.695969
1643	4.613572	.0377592	122.18	0.000	4.539566	4.687579
1644	4.608667	.0360196	127.95	0.000	4.53807	4.679264
1645	4.603762	.0343241	134.13	0.000	4.536488	4.671036
1646	4.598857	.0326796	140.73	0.000	4.534806	4.662908
1647	4.593952	.0310942	147.74	0.000	4.533008	4.654896
1648	4.589047	.0295774	155.15	0.000	4.531076	4.647018
1649	4.584142	.0281403	162.90	0.000	4.528988	4.639296
1650	4.579237	.0267957	170.89	0.000	4.526718	4.631755
1651	4.574332	.0255582	178.98	0.000	4.524239	4.624425
1652	4.569427	.0244441	186.93	0.000	4.521517	4.617336
1653	4.564522	.0234709	194.48	0.000	4.518519	4.610524
1654	4.559616	.0226569	201.25	0.000	4.51521	4.604023
1655	4.554711	.0220197	206.85	0.000	4.511554	4.597869
1656	4.549806	.021575	210.88	0.000	4.50752	4.592092
1657	4.544901	.0213347	213.03	0.000	4.503086	4.586717
1658	4.539996	.0213059	213.09	0.000	4.498237	4.581755
1659	4.535091	.0214894	211.04	0.000	4.492973	4.577209
1660	4.530186	.0218798	207.05	0.000	4.487302	4.57307
1661	4.525281	.0224663	201.43	0.000	4.481248	4.569314
1662	4.520376	.0232342	194.56	0.000	4.474838	4.565914
1663	4.515471	.0241661	186.85	0.000	4.468106	4.562835
1664	4.510566	.0252438	178.68	0.000	4.461089	4.560043
1665	4.505661	.0264496	170.35	0.000	4.45382	4.557501
1666	4.500756	.0277667	162.09	0.000	4.446334	4.555177
1667	4.49585	.0291801	154.07	0.000	4.438658	4.553042
1668	4.490945	.0306766	146.40	0.000	4.43082	4.55107
1669	4.48604	.0322444	139.13	0.000	4.422842	4.549238
1670	4.481135	.0338738	132.29	0.000	4.414744	4.547527
1671	4.47623	.0355562	125.89	0.000	4.406541	4.545919
1672	4.471325	.0372845	119.92	0.000	4.398249	4.544401
1673	4.46642	.0390525	114.37	0.000	4.389878	4.542962
1674	4.461515	.0408553	109.20	0.000	4.38144	4.54159
1675	4.45661	.0426882	104.40	0.000	4.372943	4.540277
1676	4.451705	.0445476	99.93	0.000	4.364393	4.539016
1677	4.4468	.0464304	95.77	0.000	4.355798	4.537802
1678	4.441895	.0483337	91.90	0.000	4.347162	4.536627
1679	4.43699	.0502553	88.29	0.000	4.338491	4.535488
1680	4.432084	.0521932	84.92	0.000	4.329788	4.534381
1681	4.427179	.0541455	81.76	0.000	4.321056	4.533303

```
.
matrix predictions =r(at) , r(b)'

.
clear
```

```
.
. svmat predictions, names(col)
number of observations will be reset to 1681
Press any key to continue, or Break to abort
Number of observations (_N) was 0, now 1,681.
```

```
.
. rename r1 pred_lreer
```

```
.
. save contour-plot-08-19-yr-effects, replace
file contour-plot-08-19-yr-effects.dta saved
```

```
.
// Use python to plot the 3-D figure
```

```
.
python search
```

```
Python environments found:
C:\Users\jamel\AppData\Local\Programs\Python\Python313\python.exe
C:\ProgramData\anaconda3\python.exe
```

```
.
*cmd then, "C:\Users\jamel\AppData\Local\Programs\Python\Python313\python.exe" -m pip install matplotlib
```

```
.
clear
```

```
.
python:
```

python (type **end** to exit) —————

```
>>>
>>> import pandas as pd
>>> data = pd.read_stata("contour-plot-08-19-yr-effects.dta")
>>> data[['etot','Llres','pred_lreer']]
   etot    Llres  pred_lreer
0    1.0      1.0    4.624666
1    1.0      1.1    4.624017
2    1.0      1.2    4.623369
3    1.0      1.3    4.622720
4    1.0      1.4    4.622072
...
1676   5.0      4.6    4.446800
1677   5.0      4.7    4.441895
1678   5.0      4.8    4.436989
1679   5.0      4.9    4.432085
1680   5.0      5.0    4.427179
```

[1681 rows x 3 columns]

```
>>>
```

```
>>> end
```

```
.
// Create the three-dimensional surface plot with Python
```

```
. // Install matplotlib with conda (cmd)
```

```
.
python:
```

python (type **end** to exit) —————

```
>>> import pandas as pd
>>> import numpy as np
>>> import matplotlib.pyplot as plt
>>> from mpl_toolkits.mplot3d import Axes3D # Needed for 3D plots
>>>
>>> # Load the Stata dataset
... data = pd.read_stata("contour-plot-08-19-yr-effects.dta")
>>>
>>> # Create a new 3D figure
... fig = plt.figure()
>>> ax = fig.add_subplot(111, projection='3d')
>>>
>>> # Plot the 3D surface using triangular surface interpolation
... ax.plot_trisurf(
...     data['etot'],
...     data['Llres'],
...     data['pred_lreer'])
```

```

...
    data['L1lres'],
...
    data['pred_lreer'],
...
    cmap=plt.cm.Spectral_r
...
)
<mpl_toolkits.mplot3d.art3d.Poly3DCollection object at 0x0000000047206270>
>>>
>>> # Set axis ticks
... ax.set_xticks(np.arange(1, 5, step=1))
[<matplotlib.axis.XTick object at 0x0000000047205400>, <matplotlib.axis.XTick object at 0x00000000460EC050>, <matplotlib.axis.XTick object at 0x00000000476FD0>]
> 766FD0>]
>>> ax.set_yticks(np.arange(1, 5, step=1))
[<matplotlib.axis.XTick object at 0x0000000047764690>, <matplotlib.axis.XTick object at 0x0000000047203C50>, <matplotlib.axis.XTick object at 0x0000000047F4550>]
> 7F4550>]
>>> ax.set_zticks(np.arange(4.42, 4.62, step=0.04))
[<matplotlib.axis.XTick object at 0x0000000047765BD0>, <matplotlib.axis.XTick object at 0x00000000477F4E10>, <matplotlib.axis.XTick object at 0x00000000477F5D10>, <matplotlib.axis.XTick object at 0x00000000477F6490>, <matplotlib.axis.XTick object at 0x00000000477F6C10>]
>>>
>>> # Set title and axis labels (only once!)
... ax.set_title("Buffer Effect")
Text(0.5, 0.92, 'Buffer Effect')
>>> ax.set_xlabel("Log of effective terms of trade")
Text(0.5, 0, 'Log of effective terms of trade')
>>> ax.set_ylabel("Log of lagged reserves")
Text(0.5, 0.5, 'Log of lagged reserves')
>>> ax.xaxis.set_rotate_label(False)
>>> ax.set_zlabel("Predicted REER", rotation=90)
Text(0.5, 0, 'Predicted REER')
>>>
>>> # Set the view angle (elevation and azimuth)
... ax.view_init(elev=30, azim=75)
>>>
>>> # Save the figure in high resolution
... plt.savefig("Margins3d.png", dpi=1200)
>>> plt.savefig("Margins3d.pdf", dpi=1200)
>>>
>>> # Close the plot to prevent duplicate displays
... plt.close()
>>> end

```

```

.
. **# Table 3. Regional baseline regressions.
.
. use datafintransformed-22-11-17, clear
.
.
. label list rn
rn:
    1 EAS
    2 ECS
    3 LCN
    4 MEA
    5 NAC
    6 SAS
    7 SSF
.
// East Asia and Pacific (nT=13*19)
. areg lreer lgdppk_m100 lgovexp c.etot##c.L1lres if count_lgovexp==20 & rn==1, ///
> absorb(cn) vce(bootstrap, reps(200))
(running areg on estimation sample)

Bootstrap replications (200): .....10.....20.....30.....40.....50.....60.....70.....
> ..160.....170.....180.....190.....200 done

```

Linear regression, absorbing indicators
Absorbed variable: cn

Number of obs	=	247
No. of categories	=	13
Replications	=	200
Wald chi2(5)	=	266.34
Prob > chi2	=	0.0000
R-squared	=	0.6643
Adj R-squared	=	0.6394
Root MSE	=	0.0930

lreer	Observed coefficient	Bootstrap std. err.	z	P> z	Normal-based [95% conf. interval]	
lgdppk_m100	1.009467	.1093903	9.23	0.000	.7950662	1.223868
lgovexp	.3069895	.0671754	4.57	0.000	.1753281	.4386509
etot	.341246	.0899762	3.79	0.000	.164896	.5175961
L1lres	.0891333	.0249356	3.57	0.000	.0402603	.1380063
c.etot#c.L1lres	-.110945	.0290569	-3.82	0.000	-.1678955	-.0539945
_cons	-1.104464	.4436708	-2.49	0.013	-1.974043	-.2348852

```
. // Europe and Central Asia (nT=40*19)
. areg lreer lgdppk_m100 lgovexp c.etot#c.L1lres if count_lgovexp==20 & rn==2, ///
> absorb(cn) vce(bootstrap, reps(200))
(running areg on estimation sample)
```

Bootstrap replications (200):10.....20.....30.....40.....50.....60.....70.....
> ..160.....170.....180.....190.....200 done

Linear regression, absorbing indicators
Absorbed variable: cn

	Number of obs	=	760
No. of categories	=	40	
Replications	=	200	
Wald chi2(5)	=	79.70	
Prob > chi2	=	0.0000	
R-squared	=	0.3685	
Adj R-squared	=	0.3296	
Root MSE	=	0.0938	

lreer	Observed coefficient	Bootstrap std. err.	z	P> z	Normal-based [95% conf. interval]	
lgdppk_m100	.6223134	.0726418	8.57	0.000	.4799381	.7646887
lgovexp	.151927	.0518133	2.93	0.003	.0503748	.2534791
etot	.0526992	.0130243	4.05	0.000	.0271719	.0782264
L1lres	-.0102797	.0084711	-1.21	0.225	-.0268828	.0063233
c.etot#c.L1lres	-.0175154	.0064638	-2.71	0.007	-.0301842	-.0048466
_cons	1.07206	.4113726	2.61	0.009	.2657846	1.878336

```
. // Latin American Countries (nT=17*19)
. areg lreer lgdppk_m100 lgovexp c.etot#c.L1lres if count_lgovexp==20 & rn==3, ///
> absorb(cn) vce(bootstrap, reps(200))
(running areg on estimation sample)
```

Bootstrap replications (200):10.....20.....30.....40.....50.....60.....70.....
> ..160.....170.....180.....190.....200 done

Linear regression, absorbing indicators
Absorbed variable: cn

	Number of obs	=	323
No. of categories	=	17	
Replications	=	200	
Wald chi2(5)	=	56.59	
Prob > chi2	=	0.0000	
R-squared	=	0.5065	
Adj R-squared	=	0.4721	
Root MSE	=	0.1378	

lreer	Observed coefficient	Bootstrap std. err.	z	P> z	Normal-based [95% conf. interval]	
lgdppk_m100	1.10655	.2358845	4.69	0.000	.6442245	1.568875
lgovexp	.1997806	.0702475	2.84	0.004	.0620981	.3374632
etot	.0123711	.0536417	0.23	0.818	-.0927646	.1175069
L1lres	.1051915	.0350604	3.00	0.003	.0364744	.1739086
c.etot#c.L1lres	-.0225192	.0193484	-1.16	0.244	-.0604413	.0154029
_cons	-1.137153	1.075958	-1.06	0.291	-3.245991	.9716853

```
. // Middle East and North Africa (nT=6*19)
. areg lreer lgdppk_m100 lgovexp c.etot#c.L1lres if count_lgovexp==20 ///
> & rn==4 & cn!=60, ///
> absorb(cn) vce(bootstrap, reps(200))
(running areg on estimation sample)
```

Bootstrap replications (200):10.....20.....30.....40.....50.....60.....70....
> ..160.....170.....180.....190.....200 done

Linear regression, absorbing indicators
Absorbed variable: **cn**

	Number of obs	=	114
No. of categories	=	6	
Replications	=	200	
Wald chi2(5)	=	17.49	
Prob > chi2	=	0.0037	
R-squared	=	0.4395	
Adj R-squared	=	0.3850	
Root MSE	=	0.0979	

lreer	Observed coefficient	Bootstrap std. err.	z	P> z	Normal-based [95% conf. interval]	
lgdppk_m100	-.4580802	.2349101	-1.95	0.051	-.9184954	.0023351
lgovexp	-.1075504	.1069592	-1.01	0.315	-.3171866	.1020857
etot	-.1240012	.0952131	-1.30	0.193	-.3106155	.0626131
L1lres	-.0424765	.0300984	-1.41	0.158	-.1014683	.0165153
c.etot#c.L1lres	.0184445	.0222086	0.83	0.406	-.0250837	.0619726
_cons	7.319024	1.270307	5.76	0.000	4.829269	9.808779

```
. // North America (nT=2*19)
. areg lreer lgdppk_m100 lgovexp c.etot#c.L1lres if count_lgovexp==20 & rn==5, ///
> absorb(cn) vce(bootstrap, reps(200))
(running areg on estimation sample)
```

Bootstrap replications (200):10.....20.....30.....40.....50.....60.....70....
> ..160.....170.....180.....190.....200 done

Linear regression, absorbing indicators
Absorbed variable: **cn**

	Number of obs	=	38
No. of categories	=	2	
Replications	=	200	
Wald chi2(5)	=	67.85	
Prob > chi2	=	0.0000	
R-squared	=	0.7885	
Adj R-squared	=	0.7476	
Root MSE	=	0.0614	

lreer	Observed	Bootstrap	z	P> z	Normal-based	
	coefficient	std. err.			[95% conf. interval]	
lgdppk_m100	.7046713	.6508778	1.08	0.279	-.5710256	1.980368
lgovexp	-1.056839	.2345042	-4.51	0.000	-1.516459	-.5972191
etot	.4374401	.2485226	1.76	0.078	-.0496552	.9245355
L1lres	-.5426656	.1037461	-5.23	0.000	-.7460043	-.3393269
c.etot#c.L1lres	-.5321063	.22229	-2.39	0.017	-.9677867	-.096426
_cons	4.399985	3.203623	1.37	0.170	-1.879	10.67897

```
. // South Asia (nT=5*19)
. areg lreer lgdppk_m100 lgovexp c.etot#c.L1lres if count_lgovexp==20 & rn==6, ///
> absorb(cn) vce(bootstrap, reps(200))
(running areg on estimation sample)
```

Bootstrap replications (200):10.....20.....30.....40.....50.....60.....70.....
> ..160.....170.....180.....190.....200 done

Linear regression, absorbing indicators
Absorbed variable: cn

	Number of obs	=	95
No. of categories	=	5	
Replications	=	200	
Wald chi2(5)	=	554.36	
Prob > chi2	=	0.0000	
R-squared	=	0.8128	
Adj R-squared	=	0.7930	
Root MSE	=	0.0699	

lreer	Observed	Bootstrap	z	P> z	Normal-based	
	coefficient	std. err.			[95% conf. interval]	
lgdppk_m100	1.569851	.1079094	14.55	0.000	1.358353	1.78135
lgovexp	.2116421	.0400438	5.29	0.000	.1331577	.2901265
etot	-.090847	.0553817	-1.64	0.101	-.199393	.0176991
L1lres	.0528864	.0439377	1.20	0.229	-.0332299	.1390027
c.etot#c.L1lres	.0185018	.0167419	1.11	0.269	-.0143117	.0513153
_cons	-2.324976	.4263963	-5.45	0.000	-3.160697	-1.489255

```
. // Subsaharan Africa (nT=16*19)
. areg lreer lgdppk_m100 lgovexp c.etot#c.L1lres if count_lgovexp==20 & rn==7, ///
> absorb(cn) vce(bootstrap, reps(200))
(running areg on estimation sample)
```

Bootstrap replications (200):10.....20.....30.....40.....50.....60.....70.....
> ..160.....170.....180.....190.....200 done

Linear regression, absorbing indicators
Absorbed variable: cn

	Number of obs	=	304
No. of categories	=	16	
Replications	=	200	
Wald chi2(5)	=	45.81	
Prob > chi2	=	0.0000	
R-squared	=	0.4246	
Adj R-squared	=	0.3839	
Root MSE	=	0.1474	

lreer	Observed coefficient	Bootstrap std. err.	z	P> z	Normal-based [95% conf. interval]	
lgdppk_m100	.1675039	.205305	0.82	0.415	-.2348865	.5698944
lgovexp	.1245291	.0399001	3.12	0.002	.0463262	.2027319
etot	.0412972	.0234667	1.76	0.078	-.0046966	.087291
L1lres	.0836558	.0250737	3.34	0.001	.0345123	.1327993
c.etot#c.L1lres	-.0229274	.0085528	-2.68	0.007	-.0396906	-.0061643
_cons	3.464684	.8281819	4.18	0.000	1.841477	5.087891

. **# Table 4. Panel threshold regressions and financial development.

```
.
. // Financial development (Threshold regression) //
. // Full sample //
.
. **Financial Development - Full sample**
. xthreg lreer lgdppk_m100 lgovexp if count_lgovexp==20 ///
> , ///
> rx(etot_L1lres) qx(12.fd) thnum(1) grid(300) bs(300)
Estimating the threshold parameters: 1st ..... Done
Bootstrap for single threshold
..... + 50
..... + 100
..... + 150
..... + 200
..... + 250
..... + 300
```

Threshold estimator (level = 95):

model	Threshold	Lower	Upper
Th-1	0.0844	0.0791	0.0851

Threshold effect test (bootstrap = 300):

Threshold	RSS	MSE	Fstat	Prob	Crit10	Crit5	Crit1
Single	23.2720	0.0131	12.97	0.7900	42.0030	47.8244	64.1090

Fixed-effects (within) regression Number of obs = 1,800
 Group variable: cn Number of groups = 100

R-squared: Obs per group:
 Within = 0.1286 min = 18
 Between = 0.1258 avg = 18.0
 Overall = 0.0376 max = 18

F(4, 1696) = 62.57
 Prob > F = 0.0000

lreer	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
lgdppk_m100	.6930496	.0551961	12.56	0.000	.58479	.8013091
lgovexp	.1469674	.0218244	6.73	0.000	.1041619	.189773
_cat#c.etot_L1lres						
0	.0034922	.0033994	1.03	0.304	-.0031752	.0101597
1	-.0089182	.0014233	-6.27	0.000	-.0117098	-.0061266
_cons	1.020741	.2654403	3.85	0.000	.5001164	1.541366
sigma_u	.42868485					
sigma_e	.11714166					

rho	.93051816	(fraction of variance due to u_i)
-----	-----------	-----------------------------------

F test that all u_i=0: F(99, 1696) = 14.50 Prob > F = 0.0000

```
.
. **Financial Institutions - Full sample**
. xthreg lreer lgdppk_m100 lgovexp if count_lgovexp==20 ///
> , ///
> rx(etot_L1lres) qx(12.fi) thnum(1) grid(600) bs(100) trim(0.10)
Estimating the threshold parameters: 1st ..... Done
Bootstrap for single threshold
..... + 50
..... + 100
```

Threshold estimator (level = 95):

model	Threshold	Lower	Upper
Th-1	0.4806	0.4790	0.4814

Threshold effect test (bootstrap = 100):

Threshold	RSS	MSE	Fstat	Prob	Crit10	Crit5	Crit1
Single	22.9223	0.0129	40.36	0.0900	37.8656	43.1031	49.1793

```
Fixed-effects (within) regression
Number of obs      =      1,800
Group variable: cn
Number of groups   =        100

R-squared:
Within = 0.1403
Between = 0.1183
Overall = 0.0344

Obs per group:
min = 18
avg = 18.0
max = 18

F(4, 1696)      =     69.20
corr(u_i, Xb) = -0.9699
Prob > F        = 0.0000
```

lreer	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lgdppk_m100	.7112848	.0548386	12.97	0.000	.6037263 .8188433
lgovexp	.153809	.021652	7.10	0.000	.1113415 .1962766
_cat#c.etot_L1lres					
0	-.0096133	.0013982	-6.88	0.000	-.0123557 -.0068708
1	.0077606	.002883	2.69	0.007	.002106 .0134152
_cons	.9178462	.2636877	3.48	0.001	.4006587 1.435034
sigma_u	.44204645				
sigma_e	.11635181				
rho	.93520838	(fraction of variance due to u_i)			

F test that all u_i=0: F(99, 1696) = 14.59 Prob > F = 0.0000

```
.
sum fm if fi <= 0.48 & count_lgovexp==20
```

Variable	Obs	Mean	Std. dev.	Min	Max
fm	1,179	.1506527	.175203	0	.7171974

```
. sum fm if fi > 0.48 & count_lgovexp==20
```

Variable	Obs	Mean	Std. dev.	Min	Max
fm	821	.5205559	.2536381	.0036177	.9494287

```
.
. **Financial Markets - Full sample**
. xthreg lreer lgdppk_m100 lgovexp if count_lgovexp==20 ///
> , ///
> rx(etot_L1lres) qx(12.fm) thnum(1) grid(300) bs(300)
Estimating the threshold parameters: 1st ..... Done
Bootstrap for single threshold
..... + 50
..... + 100
..... + 150
..... + 200
..... + 250
..... + 300
```

Threshold estimator (level = 95):

model	Threshold	Lower	Upper
Th-1	0.1092	0.0977	0.1148

Threshold effect test (bootstrap = 300):

Threshold	RSS	MSE	Fstat	Prob	Crit10	Crit5	Crit1
Single	23.1985	0.0130	18.66	0.4767	41.9284	51.0300	72.8207

```
Fixed-effects (within) regression
Number of obs      =      1,800
Group variable: cn
Number of groups   =        100

R-squared:
Within = 0.1313
Between = 0.1209
Overall = 0.0360

Obs per group:
min =          18
avg =         18.0
max =          18

F(4, 1696)      =     64.06
Prob > F        = 0.0000
```

lreer	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lgdppk_m100	.7139527	.0552046	12.93	0.000	.6056763 .8222291
lgovexp	.1441147	.0218229	6.60	0.000	.1013121 .1869174
_cat#c.etot_L1lres					
0	-.0043845	.0015397	-2.85	0.004	-.0074044 -.0013647
1	-.0145245	.0021707	-6.69	0.000	-.018782 -.0102669
_cons	.9325112	.2651255	3.52	0.000	.4125037 1.452519
sigma_u	.44079781				
sigma_e	.11696286				
rho	.9342239	(fraction of variance due to u_i)			

F test that all u_i=0: F(99, 1696) = 14.59 Prob > F = 0.0000

```
.
. // Europe and Central Asia + North America //
.
. **Financial Development - Europe and Central Asia + North America**
. xthreg lreer lgdppk_m100 lgovexp if count_lgovexp==20 ///
>     & rn==2 | rn==5, ///
>             rx(etot_L1lres) qx(L2.fd) thnum(1) grid(300) bs(300)
Estimating the threshold parameters: 1st ..... Done
Bootstrap for single threshold
..... + 50
..... + 100
..... + 150
..... + 200
..... + 250
..... + 300
```

Threshold estimator (level = 95):

model	Threshold	Lower	Upper
Th-1	0.1256	0.1211	0.1851

Threshold effect test (bootstrap = 300):

Threshold	RSS	MSE	Fstat	Prob	Crit10	Crit5	Crit1
Single	5.5659	0.0075	30.12	0.1467	35.5677	42.0425	61.7839

Fixed-effects (within) regression
Number of obs = 756
Group variable: cn Number of groups = 42

R-squared:
Within = 0.1369 Obs per group:
Between = 0.0021 min = 18
Overall = 0.0009 avg = 18.0
max = 18

F(4, 710) = 28.16
corr(u_i, Xb) = -0.9299 Prob > F = 0.0000

lreer	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lgdppk_m100	.5627066	.0637062	8.83	0.000	.4376315 .6877817
lgovexp	.1173535	.0414934	2.83	0.005	.035889 .1988179
_cat#c.etot_L1lres					
0	-.0152051	.0038533	-3.95	0.000	-.0227704 -.0076398
1	.0074748	.0023648	3.16	0.002	.0028319 .0121177
_cons	1.441688	.3587107	4.02	0.000	.7374275 2.145949
sigma_u	.19853569				
sigma_e	.08853995				
rho	.83410856	(fraction of variance due to u_i)			

F test that all u_i=0: F(41, 710) = 10.91 Prob > F = 0.0000

```
.
. **Financial Institutions - Europe and Central Asia + North America**
```

```
. xthreg lreer lgdppk_m100 lgovexp if count_lgovexp==20 ///
>     & rn==2 | rn==5, ///
>             rx(etot_L1lres) qx(12.fi) thnum(1) grid(100) bs(300)
Estimating the threshold parameters: 1st ..... Done
Bootstrap for single threshold
..... + 50
..... + 100
..... + 150
..... + 200
..... + 250
..... + 300
```

Threshold estimator (level = 95):

model	Threshold	Lower	Upper
Th-1	0.2300	0.2069	0.2494

Threshold effect test (bootstrap = 300):

Threshold	RSS	MSE	Fstat	Prob	Crit10	Crit5	Crit1
Single	5.6815	0.0077	14.50	0.4900	32.1336	38.5928	51.0722

```
Fixed-effects (within) regression
Number of obs      =      756
Group variable: cn
Number of groups   =       42

R-squared:
Within = 0.1190
Between = 0.0040
Overall = 0.0001

Obs per group:
min = 18
avg = 18.0
max = 18

F(4, 710)      = 23.98
Prob > F        = 0.0000
corr(u_i, Xb) = -0.9384
```

lreer	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lgdppk_m100	.5768517	.0643669	8.96	0.000	.4504795 .7032239
lgovexp	.1164328	.0420472	2.77	0.006	.0338812 .1989845
_cat#c.etot_L1lres					
0	-.0069772	.0032419	-2.15	0.032	-.0133421 -.0006123
1	.0064461	.0024613	2.62	0.009	.0016138 .0112784
_cons	1.376674	.3621325	3.80	0.000	.6656954 2.087653
sigma_u	.20841951				
sigma_e	.08945422				
rho	.84444129	(fraction of variance due to u_i)			

F test that all u_i=0: F(41, 710) = 10.95 Prob > F = 0.0000

```
.
. **Financial Markets - Europe and Central Asia + North America**
. xthreg lreer lgdppk_m100 lgovexp if count_lgovexp==20 ///
>     & rn==2 | rn==5, ///
>             rx(etot_L1lres) qx(L2.fm) thnum(1) grid(100) bs(300)
Estimating the threshold parameters: 1st ..... Done
Bootstrap for single threshold
..... + 50
..... + 100
..... + 150
..... + 200
..... + 250
..... + 300
```

Threshold estimator (level = 95):

model	Threshold	Lower	Upper
Th-1	0.0216	0.0184	0.0229

Threshold effect test (bootstrap = 300):

Threshold	RSS	MSE	Fstat	Prob	Crit10	Crit5	Crit1
Single	5.3757	0.0073	57.29	0.0200	37.5143	46.8962	61.8849

Fixed-effects (within) regression Number of obs = **756**
 Group variable: cn Number of groups = **42**

R-squared: Obs per group:
 Within = **0.1601** min = **18**
 Between = **0.0004** avg = **18.0**
 Overall = **0.0026** max = **18**

F(4, 710) = **33.84**
 corr(u_i, Xb) = **-0.9339** Prob > F = **0.0000**

lreer	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lgdppk_m100	.591252	.0628943	9.40	0.000	.4677709 .7147331
lgovexp	.1305923	.0408377	3.20	0.001	.0504152 .2107694
_cat#c.etot_L1lres					
0	-.0129384	.003	-4.31	0.000	-.0188283 -.0070486
1	.0134882	.0026651	5.06	0.000	.0082557 .0187207
_cons	1.260422	.3538644	3.56	0.000	.5656764 1.955168
sigma_u	.20765733				
sigma_e	.08734176				
rho	.84968353	(fraction of variance due to u_i)			

F test that all u_i=0: F(41, 710) = **10.33** Prob > F = **0.0000**

. sum fm if fm <= 0.0219 & rn==2 | rn==5 & count_lgovexp==20

Variable	Obs	Mean	Std. dev.	Min	Max
fm	164	.2127763	.3608132	.0028123	.9148313

. sum fm if fm > 0.0219 & rn==2 | rn==5 & count_lgovexp==20

Variable	Obs	Mean	Std. dev.	Min	Max
fm	716	.4543645	.282273	.0220041	.9494287

```
.
. /*
> capture graph drop LR_FMECS
>
> _matplot e(LR), yline(7.35, lpattern(dash)) connect(direct) msize(small) mlabp(0) mlabz(zero) ytitle("LR Statistic")
>
> graph export LR_FMECS.pdf, as(pdf) name("LR_FMECS") replace
> */
```

```
.
. **Financial Markets Depth - Europe and Central Asia + North America**
.
. xthreg lreer lgdppk_m lgovexp if count_lgovexp==20 ///
>     & rn==2 | rn==5, ///
>             rx(etot_L1lres) qx(L2.fmd) thnum(1) grid(100) bs(300)
Estimating the threshold parameters: 1st ..... Done
Bootstrap for single threshold
..... + 50
..... + 100
..... + 150
..... + 200
..... + 250
..... + 300
```

Threshold estimator (level = 95):

model	Threshold	Lower	Upper
Th-1	0.0241	0.0166	0.0280

Threshold effect test (bootstrap = 300):

Threshold	RSS	MSE	Fstat	Prob	Crit10	Crit5	Crit1
Single	5.3760	0.0073	57.26	0.0267	38.2126	47.5547	69.1047

Fixed-effects (within) regression Number of obs = 756
Group variable: cn Number of groups = 42

R-squared: Obs per group:
Within = 0.1673 min = 18
Between = 0.0005 avg = 18.0
Overall = 0.0030 max = 18
F(4, 710) = 35.67
corr(u_i, Xb) = -0.9282 Prob > F = 0.0000

Ireer	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lgdppk_m	2.561108	.2882277	8.89	0.000	1.995227 3.126988
lgovexp	.1373003	.0406665	3.38	0.001	.0574593 .2171413
_cat#c.etot_L1lres					
0	-.0128404	.0028942	-4.44	0.000	-.0185227 -.0071582
1	.0122909	.002508	4.90	0.000	.0073669 .017215
_cons	1.417118	.3521208	4.02	0.000	.7257953 2.10844
sigma_u	.20057286				
sigma_e	.08696719				
rho	.84174816	(fraction of variance due to u_i)			

F test that all u_i=0: F(41, 710) = 10.34 Prob > F = 0.0000

.

. sum fm if fmd <= 0.0241 & rn==2 | rn==5 & count_lgovexp==20

Variable	Obs	Mean	Std. dev.	Min	Max
fm	161	.2170735	.3628302	.0028123	.9148313

```
. sum fm if fmd > 0.0241 & rn==2 | rn==5 & count_lgovexp==20
```

Variable	Obs	Mean	Std. dev.	Min	Max
fm	719	.4523942	.2833112	.0137983	.9494287

```
.
. /*
> capture graph drop LR_FMDECS
>
> _matplot e(LR), yline(7.35, lpattern(dash)) connect(direct) msize(small) mlabp(0) mlabel(zero) ytitle("LR Statistic")
>
> graph export LR_FMDECS.pdf, as(pdf) name("LR_FMDECS") replace
> */

. **# Fig. 3. Construction of the confidence interval in the threshold model - FI.
.
. **Financial Institutions - Full sample**
. xthreg lreer lgdppk_m100 lgovexp if count_lgovexp==20 ///
> , ///
> rx(etot_L1lres) qx(12.fi) thnum(1) grid(600) bs(100) trim(0.10)
Estimating the threshold parameters: 1st ..... Done
Bootstrap for single threshold
..... + 50
..... + 100
```

Threshold estimator (level = 95):

model	Threshold	Lower	Upper
Th-1	0.4806	0.4790	0.4814

Threshold effect test (bootstrap = 100):

Threshold	RSS	MSE	Fstat	Prob	Crit10	Crit5	Crit1
Single	22.9223	0.0129	40.36	0.0800	36.6297	41.3121	47.8083

Fixed-effects (within) regression
Number of obs = 1,800
Group variable: cn Number of groups = 100

R-squared:
Within = **0.1403** Obs per group:
Between = **0.1183** min = **18**
Overall = **0.0344** avg = **18.0**
max = **18**

corr(u_i, Xb) = **-0.9699** F(4, 1696) = **69.20**
Prob > F = **0.0000**

lreer	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lgdppk_m100	.7112848	.0548386	12.97	0.000	.6037263 .8188433
lgovexp	.153809	.021652	7.10	0.000	.1113415 .1962766
_cat#c.etot_L1lres					
0	-.0096133	.0013982	-6.88	0.000	-.0123557 -.0068708
1	.0077606	.002883	2.69	0.007	.002106 .0134152
_cons	.9178462	.2636877	3.48	0.001	.4006587 1.435034
sigma_u	.44204645				
sigma_e	.11635181				
rho	.93520838	(fraction of variance due to u_i)			

F test that all u_i=0: F(99, 1696) = 14.59 Prob > F = 0.0000

```
. sum fm if fi <= 0.48 & count_lgovexp==20
```

Variable	Obs	Mean	Std. dev.	Min	Max
fm	1,179	.1506527	.175203	0	.7171974

```
. sum fm if fi > 0.48 & count_lgovexp==20
```

Variable	Obs	Mean	Std. dev.	Min	Max
fm	821	.5205559	.2536381	.0036177	.9494287

```
. capture graph drop LR_FI
```

```
. _matplot e(LR), yline(7.35, lpattern(dash)) connect(direct) mszie(small) mlabp(0) mlabel(zero) ytitle("LR Statistic")
```

```
. graph export LR_FI.pdf, as(pdf) name("LR_FI") replace  
file LR_FI.pdf saved as PDF format
```

```
. **# Table 5. Panel threshold regression and financial openness.
```

```
. **Financial openness - Full sample**
```

```
. xthreg lrerer lgdppk_m100 lgovexp if count_lgovexp==20 & ///  
> count_ka_open==19, ///  
> rx(etot_L1lres) qx(12.ka_open_m) ///  
> thnum(2) grid(900) bs(300 300) trim(0.10 0.01)  
Estimating the threshold parameters: 1st ..... 2nd ..... Done  
Bootstrap for single threshold
```

```
..... + 50  
..... + 100  
..... + 150  
..... + 200  
..... + 250  
..... + 300
```

```
Bootstrap for double threshold model:
```

```
..... + 50  
..... + 100  
..... + 150  
..... + 200  
..... + 250  
..... + 300
```

Threshold estimator (level = 95):

model	Threshold	Lower	Upper
Th-1	-0.1144	-0.1375	-0.1097
Th-21	-0.1144	-0.1333	-0.1097
Th-22	0.2058	0.1921	0.2073

Threshold effect test (bootstrap = 300 300):

Threshold	RSS	MSE	Fstat	Prob	Crit10	Crit5	Crit1
Single	22.7212	0.0130	28.32	0.1133	29.8334	37.9756	52.7391
Double	22.1975	0.0127	41.19	0.0267	28.0954	32.3206	47.5405

Fixed-effects (within) regression
Group variable: cn

Number of obs = 1,764
Number of groups = 98

R-squared:

Within = 0.1543
Between = 0.1119
Overall = 0.0307

Obs per group:

min = 18
avg = 18.0
max = 18

F(5, 1661) = 60.63
 corr(u_i, Xb) = -0.9680 Prob > F = 0.000

lreer	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lgdppk_m100	.7404434	.0552611	13.40	0.000	.6320546 .8488322
lgovexp	.1441058	.0219179	6.57	0.000	.1011161 .1870955
_cat#c.etot_L1lres					
0	-.0045747	.0017382	-2.63	0.009	-.0079839 -.0011655
1	-.0234877	.0023907	-9.82	0.000	-.0281767 -.0187986
2	-.0042542	.0022476	-1.89	0.059	-.0086626 .0001542
_cons	.8047315	.265924	3.03	0.003	.28315 1.326313
sigma_u	.43545005				
sigma_e	.11566306				
rho	.93409708	(fraction of variance due to u_i)			

F test that all u_i=0: F(97, 1661) = 15.63 Prob > F = 0.000

. sum ka_open_m if count_lgovexp==20 & count_ka_open==19

Variable	Obs	Mean	Std. dev.	Min	Max
ka_open_m	1,862	.015244	.3535639	-.6582235	.4426827

. sum ka_open_m if ka_open_m <= -0.1144

Variable	Obs	Mean	Std. dev.	Min	Max
ka_open_m	870	-.3856457	.1428596	-.6582235	-.1144242

. **# Table B.1. Panel AR(1) regression for the international reserves.

. // AR coefficients

. xtreg lres l1res if count_lgovexp==20, ///
> fe

Fixed-effects (within) regression Number of obs = 1,900
 Group variable: cn Number of groups = 100

R-squared: Obs per group:

Within = 0.6436	min = 19
Between = 0.9984	avg = 19.0
Overall = 0.9364	max = 19

F(1, 1799) = 3248.53
 corr(u_i, Xb) = 0.9001 Prob > F = 0.000

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.7867582	.0138038	57.00	0.000	.759685 .8138313
_cons	.5501412	.0348312	15.79	0.000	.4818274 .6184549
sigma_u	.19365015				
sigma_e	.22246245				
rho	.4310888	(fraction of variance due to u_i)			

F test that all u_i=0: F(99, 1799) = 2.73 Prob > F = 0.000

```
. estimate store ar

. local switches "dec(4) word se e(rmse)"

. outreg2 [ar*] using "ar.rtf", replace `switches'
ar.rtf
dir : seeout

. label list cn
cn:
    1 Albania
    2 Algeria
    3 Angola
    4 Argentina
    5 Armenia
    6 Australia
    7 Austria
    8 Azerbaijan
    9 Bangladesh
   10 Belarus
   11 Belgium
   12 Bolivia
   13 Botswana
   14 Brazil
   15 Bulgaria
   16 Burundi
   17 Cambodia
   18 Canada
   19 Chile
   20 China
   21 Colombia
   22 Congo, Dem Rep
   23 Costa Rica
   24 Croatia
   25 Cyprus
   26 Czech Republic
   27 Denmark
   28 Dominican Republic
   29 Ecuador
   30 Egypt, Arab Rep
   31 El Salvador
   32 Estonia
   33 Ethiopia
   34 Finland
   35 France
   36 Gambia, The
   37 Georgia
   38 Germany
   39 Ghana
   40 Greece
   41 Guatemala
   42 Guinea
   43 Honduras
   44 Hungary
   45 India
   46 Indonesia
   47 Iraq
   48 Ireland
   49 Israel
   50 Italy
   51 Jamaica
   52 Japan
   53 Kazakhstan
   54 Kenya
   55 Korea, Rep
   56 Kuwait
   57 Kyrgyz Republic
   58 Lao PDR
   59 Latvia
```

60 Lebanon
 61 Lithuania
 62 Luxembourg
 63 Madagascar
 64 Malawi
 65 Malaysia
 66 Mauritania
 67 Mauritius
 68 Mexico
 69 Moldova
 70 Mongolia
 71 Morocco
 72 Mozambique
 73 Namibia
 74 Nepal
 75 Netherlands
 76 New Zealand
 77 Nicaragua
 78 Nigeria
 79 North Macedonia
 80 Norway
 81 Oman
 82 Pakistan
 83 Panama
 84 Paraguay
 85 Peru
 86 Philippines
 87 Poland
 88 Portugal
 89 Romania
 90 Russian Federation
 91 Rwanda
 92 Saudi Arabia
 93 Sierra Leone
 94 Singapore
 95 Slovak Republic
 96 Slovenia
 97 South Africa
 98 Spain
 99 Sri Lanka
 100 Sweden
 101 Thailand
 102 Trinidad and Tobago
 103 Tunisia
 104 Turkey
 105 Ukraine
 106 United Kingdom
 107 United States
 108 Uruguay
 109 Vietnam
 110 Zambia

```

. drop if count_lgovexp!=20
(200 observations deleted)

. encode cntry, gen(cn2)

. forval i = 1(1)100 {
  2.      reg lres l.lres if cn2 ==`i'
  3.      estimates store ar_`i'
  4. }

```

Source	SS	df	MS	Number of obs	=	19
Model	.233612716	1	.233612716	F(1, 17)	=	17.23
Residual	.230483704	17	.013557865	Prob > F	=	0.0007
				R-squared	=	0.5034
				Adj R-squared	=	0.4742
Total	.46409642	18	.025783134	Root MSE	=	.11644

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.8392438	.2021788	4.15	0.001	.4126839 1.265804
_cons	.5207413	.6234918	0.84	0.415	-.7947115 1.836194
Source	SS	df	MS	Number of obs	= 19
Model	1.87669289	1	1.87669289	F(1, 17)	= 76.82
Residual	.415279954	17	.024428233	Prob > F	= 0.0000
Total	2.29197284	18	.127331825	R-squared	= 0.8188
				Adj R-squared	= 0.8082
				Root MSE	= .1563
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.8997069	.102648	8.76	0.000	.6831385 1.116275
_cons	.422654	.4329975	0.98	0.343	-.4908909 1.336199
Source	SS	df	MS	Number of obs	= 19
Model	4.50099064	1	4.50099064	F(1, 17)	= 41.57
Residual	1.84069368	17	.108276099	Prob > F	= 0.0000
Total	6.34168431	18	.352315795	R-squared	= 0.7097
				Adj R-squared	= 0.6927
				Root MSE	= .32905
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.8391966	.1301595	6.45	0.000	.564584 1.113809
_cons	.4875896	.3606966	1.35	0.194	-.2734137 1.248593
Source	SS	df	MS	Number of obs	= 19
Model	1.07510474	1	1.07510474	F(1, 17)	= 18.96
Residual	.963997645	17	.056705744	Prob > F	= 0.0004
Total	2.03910238	18	.113283466	R-squared	= 0.5272
				Adj R-squared	= 0.4994
				Root MSE	= .23813
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.689186	.1582795	4.35	0.000	.3552455 1.023127
_cons	.7454685	.3713508	2.01	0.061	-.0380133 1.52895
Source	SS	df	MS	Number of obs	= 19
Model	.000027225	1	.000027225	F(1, 17)	= 0.00
Residual	.493703885	17	.029041405	Prob > F	= 0.9759
Total	.49373111	18	.027429506	R-squared	= 0.0001
				Adj R-squared	= -0.0588
				Root MSE	= .17042
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	-.0074365	.2428811	-0.03	0.976	-.5198709 .5049979
_cons	2.951295	.70872	4.16	0.001	1.456026 4.446563

Source	SS	df	MS	Number of obs	=	19
Model	.362720039	1	.362720039	F(1, 17)	=	8.17
Residual	.754877471	17	.044404557	Prob > F	=	0.0109
Total	1.11759751	18	.062088751	R-squared	=	0.3246
				Adj R-squared	=	0.2848
				Root MSE	=	.21072

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.5826201	.2038513	2.86	0.011	.1525315 1.012709
_cons	.6629958	.3368994	1.97	0.066	-.0477998 1.373791

Source	SS	df	MS	Number of obs	=	19
Model	.221748569	1	.221748569	F(1, 17)	=	18.20
Residual	.207129778	17	.012184105	Prob > F	=	0.0005
Total	.428878347	18	.023826575	R-squared	=	0.5170
				Adj R-squared	=	0.4886
				Root MSE	=	.11038

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.5063943	.1187012	4.27	0.001	.2559566 .7568319
_cons	.6323449	.161443	3.92	0.001	.29173 .9729597

Source	SS	df	MS	Number of obs	=	19
Model	.173898891	1	.173898891	F(1, 17)	=	6.10
Residual	.484757462	17	.028515145	Prob > F	=	0.0244
Total	.658656353	18	.03659202	R-squared	=	0.2640
				Adj R-squared	=	0.2207
				Root MSE	=	.16886

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.5388555	.2182035	2.47	0.024	.0784864 .9992247
_cons	1.251751	.5855527	2.14	0.047	.016343 2.487159

Source	SS	df	MS	Number of obs	=	19
Model	2.65190963	1	2.65190963	F(1, 17)	=	92.77
Residual	.485981531	17	.028587149	Prob > F	=	0.0000
Total	3.13789116	18	.174327287	R-squared	=	0.8451
				Adj R-squared	=	0.8360
				Root MSE	=	.16908

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.8285281	.0860228	9.63	0.000	.647036 1.01002
_cons	.4431848	.1885094	2.35	0.031	.0454647 .8409049

Source	SS	df	MS	Number of obs	=	19
Model	.548157568	1	.548157568	F(1, 17)	=	4.98
Residual	1.87113548	17	.110066793	Prob > F	=	0.0394
Total	2.41929305	18	.134405169	R-squared	=	0.2266
				Adj R-squared	=	0.1811
				Root MSE	=	.33176

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.4550346	.2039012	2.23	0.039	.0248406 .8852286
_cons	1.082697	.3987256	2.72	0.015	.2414599 1.923935
Source	SS	df	MS	Number of obs	= 19
Model	.259206399	1	.259206399	F(1, 17)	= 15.91
Residual	.27696853	17	.016292266	Prob > F	= 0.0010
Total	.536174929	18	.029787496	R-squared	= 0.4834
				Adj R-squared	= 0.4531
				Root MSE	= .12764
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.6417941	.1609028	3.99	0.001	.3023188 .9812693
_cons	.4989846	.2306703	2.16	0.045	.0123129 .9856563
Source	SS	df	MS	Number of obs	= 19
Model	5.9594218	1	5.9594218	F(1, 17)	= 84.49
Residual	1.19902784	17	.070531049	Prob > F	= 0.0000
Total	7.15844964	18	.397691647	R-squared	= 0.8325
				Adj R-squared	= 0.8226
				Root MSE	= .26558
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.9557567	.1039766	9.19	0.000	.7363854 1.175128
_cons	.1217184	.336352	0.36	0.722	-.5879222 .8313591
Source	SS	df	MS	Number of obs	= 19
Model	1.34771362	1	1.34771362	F(1, 17)	= 73.56
Residual	.31147015	17	.018321774	Prob > F	= 0.0000
Total	1.65918377	18	.092176876	R-squared	= 0.8123
				Adj R-squared	= 0.8012
				Root MSE	= .13536
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.912587	.1064043	8.58	0.000	.6880935 1.137081
_cons	.3015574	.4428326	0.68	0.505	-.6327376 1.235852
Source	SS	df	MS	Number of obs	= 19
Model	1.92168512	1	1.92168512	F(1, 17)	= 66.34
Residual	.492458506	17	.028968147	Prob > F	= 0.0000
Total	2.41414363	18	.13411909	R-squared	= 0.7960
				Adj R-squared	= 0.7840
				Root MSE	= .1702
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.8897669	.1092435	8.14	0.000	.6592833 1.120251
_cons	.3502008	.2852096	1.23	0.236	-.2515388 .9519403

Source	SS	df	MS	Number of obs	=	19
Model	.2512258	1	.2512258	F(1, 17)	=	13.24
Residual	.322689501	17	.018981735	Prob > F	=	0.0020
Total	.573915302	18	.031884183	R-squared	=	0.4377
				Adj R-squared	=	0.4047
				Root MSE	=	.13777

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.6772275	.1861532	3.64	0.002	.2844787 1.069976
_cons	1.178596	.657501	1.79	0.091	-.2086098 2.565802

Source	SS	df	MS	Number of obs	=	19
Model	3.55792125	1	3.55792125	F(1, 17)	=	30.97
Residual	1.9531119	17	.114888935	Prob > F	=	0.0000
Total	5.51103314	18	.306168508	R-squared	=	0.6456
				Adj R-squared	=	0.6248
				Root MSE	=	.33895

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.7641764	.1373202	5.56	0.000	.474456 1.053897
_cons	.5332414	.3109116	1.72	0.104	-.1227246 1.189207

Source	SS	df	MS	Number of obs	=	19
Model	3.61583014	1	3.61583014	F(1, 17)	=	333.54
Residual	.184291449	17	.010840673	Prob > F	=	0.0000
Total	3.80012159	18	.211117866	R-squared	=	0.9515
				Adj R-squared	=	0.9487
				Root MSE	=	.10412

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	1.037639	.056816	18.26	0.000	.9177679 1.15751
_cons	-.0449081	.1911563	-0.23	0.817	-.4482126 .3583963

Source	SS	df	MS	Number of obs	=	19
Model	.473871467	1	.473871467	F(1, 17)	=	43.44
Residual	.185438574	17	.010908151	Prob > F	=	0.0000
Total	.659310041	18	.036628336	R-squared	=	0.7187
				Adj R-squared	=	0.7022
				Root MSE	=	.10444

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.8878291	.1347022	6.59	0.000	.6036323 1.172026
_cons	.1870707	.2165504	0.86	0.400	-.2698108 .6439523

Source	SS	df	MS	Number of obs	=	19
Model	.240260876	1	.240260876	F(1, 17)	=	15.00
Residual	.272338901	17	.016019935	Prob > F	=	0.0012
Total	.512599777	18	.028477765	R-squared	=	0.4687
				Adj R-squared	=	0.4375
				Root MSE	=	.12657

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.6369503	.1644729	3.87	0.001	.2899428 .9839579
_cons	.9958026	.4581234	2.17	0.044	.0292467 1.962359
Source	SS	df	MS	Number of obs	= 19
Model Residual	1.18916672 .224141616	1 17	1.18916672 .013184801	F(1, 17) Prob > F R-squared Adj R-squared	= 90.19 = 0.0000 = 0.8414 = 0.8321
Total	1.41330833	18	.07851713	Root MSE	= .11483
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.8321878	.0876268	9.50	0.000	.6473115 1.017064
_cons	.6015507	.3070955	1.96	0.067	-.0463642 1.249466
Source	SS	df	MS	Number of obs	= 19
Model Residual	.679681953 .187479065	1 17	.679681953 .01102818	F(1, 17) Prob > F R-squared Adj R-squared	= 61.63 = 0.0000 = 0.7838 = 0.7711
Total	.867161018	18	.048175612	Root MSE	= .10502
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	1.096112	.1396221	7.85	0.000	.8015355 1.390689
_cons	-.2073299	.354265	-0.59	0.566	-.9547636 .5401039
Source	SS	df	MS	Number of obs	= 19
Model Residual	1.85982365 2.80269025	1 17	1.85982365 .164864132	F(1, 17) Prob > F R-squared Adj R-squared	= 11.28 = 0.0037 = 0.3989 = 0.3635
Total	4.66251389	18	.25902855	Root MSE	= .40603
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.6230978	.1855169	3.36	0.004	.2316914 1.014504
_cons	.4547488	.2380545	1.91	0.073	-.0475023 .957
Source	SS	df	MS	Number of obs	= 19
Model Residual	.116030647 .160363356	1 17	.116030647 .009433139	F(1, 17) Prob > F R-squared Adj R-squared	= 12.30 = 0.0027 = 0.4198 = 0.3857
Total	.276394003	18	.015355222	Root MSE	= .09712
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.5367846	.153053	3.51	0.003	.213871 .8596982
_cons	1.212905	.3960245	3.06	0.007	.3773667 2.048444

Source	SS	df	MS	Number of obs	=	19
Model	.460679416	1	.460679416	F(1, 17)	=	28.54
Residual	.274387697	17	.016140453	Prob > F	=	0.0001
Total	.735067114	18	.040837062	R-squared	=	0.6267
				Adj R-squared	=	0.6048
				Root MSE	=	.12705
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
lres						
L1.	.9032017	.1690609	5.34	0.000	.5465143	1.259889
_cons	.3499134	.5498655	0.64	0.533	-.8102014	1.510028
Source	SS	df	MS	Number of obs	=	19
Model	16.7620295	1	16.7620295	F(1, 17)	=	68.99
Residual	4.13017857	17	.242951681	Prob > F	=	0.0000
Total	20.8922081	18	1.16067823	R-squared	=	0.8023
				Adj R-squared	=	0.7907
				Root MSE	=	.4929
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
lres						
L1.	.8712389	.10489	8.31	0.000	.6499405	1.092537
_cons	.1203398	.2221872	0.54	0.595	-.3484342	.5891137
Source	SS	df	MS	Number of obs	=	19
Model	3.30200519	1	3.30200519	F(1, 17)	=	93.99
Residual	.597213696	17	.035130217	Prob > F	=	0.0000
Total	3.89921889	18	.216623271	R-squared	=	0.8468
				Adj R-squared	=	0.8378
				Root MSE	=	.18743
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
lres						
L1.	1.011754	.1043582	9.70	0.000	.7915778	1.231931
_cons	.0202117	.3505849	0.06	0.955	-.7194577	.7598812
Source	SS	df	MS	Number of obs	=	19
Model	.795332386	1	.795332386	F(1, 17)	=	23.38
Residual	.578272246	17	.034016014	Prob > F	=	0.0002
Total	1.37360463	18	.076311368	R-squared	=	0.5790
				Adj R-squared	=	0.5542
				Root MSE	=	.18443
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
lres						
L1.	.7029386	.1453734	4.84	0.000	.3962277	1.00965
_cons	.8949912	.4251748	2.10	0.050	-.0020493	1.792032
Source	SS	df	MS	Number of obs	=	19
Model	2.26900843	1	2.26900843	F(1, 17)	=	30.28
Residual	1.27387194	17	.074933644	Prob > F	=	0.0000
Total	3.54288038	18	.196826688	R-squared	=	0.6404
				Adj R-squared	=	0.6193
				Root MSE	=	.27374

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.8589017	.1560859	5.50	0.000	.5295891 1.188214
_cons	.3249995	.3065259	1.06	0.304	-.3217136 .9717125
Source	SS	df	MS	Number of obs	= 19
Model				F(1, 17)	= 1.45
Residual	.160375372	1	.160375372	Prob > F	= 0.2450
	1.87990511	17	.110582654	R-squared	= 0.0786
Total	2.04028049	18	.113348916	Adj R-squared	= 0.0244
				Root MSE	= .33254
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.2962505	.2459992	1.20	0.245	-.2227625 .8152635
_cons	.9703365	.3413529	2.84	0.011	.2501449 1.690528
Source	SS	df	MS	Number of obs	= 19
Model	4.3518611	1	4.3518611	F(1, 17)	= 45.94
Residual	1.61026122	17	.094721248	Prob > F	= 0.0000
Total	5.96212232	18	.331229018	R-squared	= 0.7299
				Adj R-squared	= 0.7140
				Root MSE	= .30777
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.8559611	.1262816	6.78	0.000	.5895301 1.122392
_cons	.3489342	.3287954	1.06	0.303	-.3447635 1.042632
Source	SS	df	MS	Number of obs	= 19
Model	.011870412	1	.011870412	F(1, 17)	= 0.93
Residual	.218049794	17	.012826458	Prob > F	= 0.3495
Total	.229920206	18	.012773345	R-squared	= 0.0516
				Adj R-squared	= -0.0042
				Root MSE	= .11325
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.2280782	.2370851	0.96	0.350	-.2721276 .728284
_cons	2.022376	.6226422	3.25	0.005	.7087161 3.336037
Source	SS	df	MS	Number of obs	= 19
Model	10.9513557	1	10.9513557	F(1, 17)	= 41.32
Residual	4.50599482	17	.265058519	Prob > F	= 0.0000
Total	15.4573506	18	.858741698	R-squared	= 0.7085
				Adj R-squared	= 0.6913
				Root MSE	= .51484
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.8273106	.128708	6.43	0.000	.5557605 1.098861
_cons	.2978997	.2737971	1.09	0.292	-.2797618 .8755611

Source	SS	df	MS	Number of obs	=	19
Model	.620152553	1	.620152553	F(1, 17)	=	29.83
Residual	.3534491	17	.020791124	Prob > F	=	0.0000
Total	.973601653	18	.054088981	R-squared	=	0.6370
				Adj R-squared	=	0.6156
				Root MSE	=	.14419

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.7362761	.1348126	5.46	0.000	.4518464 1.020706
_cons	.3928162	.2136607	1.84	0.084	-.0579685 .8436009

Source	SS	df	MS	Number of obs	=	19
Model	.103769276	1	.103769276	F(1, 17)	=	6.51
Residual	.270843206	17	.015931953	Prob > F	=	0.0206
Total	.374612482	18	.020811805	R-squared	=	0.2770
				Adj R-squared	=	0.2345
				Root MSE	=	.12622

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.5839619	.2288151	2.55	0.021	.1012043 1.066719
_cons	.4488753	.2438689	1.84	0.083	-.0656431 .9633938

Source	SS	df	MS	Number of obs	=	19
Model	.275178987	1	.275178987	F(1, 17)	=	3.57
Residual	1.31048003	17	.077087061	Prob > F	=	0.0760
Total	1.58565902	18	.088092168	R-squared	=	0.1735
				Adj R-squared	=	0.1249
				Root MSE	=	.27765

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.4470802	.2366293	1.89	0.076	-.052164 .9463244
_cons	1.428716	.6084841	2.35	0.031	.1449265 2.712505

Source	SS	df	MS	Number of obs	=	19
Model	2.58480832	1	2.58480832	F(1, 17)	=	83.29
Residual	.527556828	17	.031032755	Prob > F	=	0.0000
Total	3.11236515	18	.172909175	R-squared	=	0.8305
				Adj R-squared	=	0.8205
				Root MSE	=	.17616

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.8553396	.0937205	9.13	0.000	.6576066 1.053073
_cons	.4565301	.2496366	1.83	0.085	-.0701571 .9832172

Source	SS	df	MS	Number of obs	=	19
Model	.1115802	1	.1115802	F(1, 17)	=	22.97
Residual	.082578676	17	.004857569	Prob > F	=	0.0002
Total	.194158876	18	.010786604	R-squared	=	0.5747
				Adj R-squared	=	0.5497
				Root MSE	=	.0697

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.62673	.1307665	4.79	0.000	.3508369 .9026232
_cons	.3572132	.1318967	2.71	0.015	.0789355 .6354909
Source	SS	df	MS	Number of obs	= 19
Model Residual	.244022068 1.0097797	1 17	.244022068 .059398806	F(1, 17) Prob > F R-squared Adj R-squared	= 4.11 = 0.0587 = 0.1946 = 0.1473
Total	1.25380176	18	.069655654	Root MSE	= .24372
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.3896297	.1922323	2.03	0.059	-.015945 .7952044
_cons	1.537023	.477856	3.22	0.005	.5288353 2.545211
Source	SS	df	MS	Number of obs	= 19
Model Residual	2.4053677 1.25044124	1 17	2.4053677 .073555367	F(1, 17) Prob > F R-squared Adj R-squared	= 32.70 = 0.0000 = 0.6580 = 0.6378
Total	3.65580894	18	.203100497	Root MSE	= .27121
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.7681041	.1343187	5.72	0.000	.4847164 1.051492
_cons	.1384603	.1081356	1.28	0.218	-.089686 .3666065
Source	SS	df	MS	Number of obs	= 19
Model Residual	.355062678 .151034338	1 17	.355062678 .008884373	F(1, 17) Prob > F R-squared Adj R-squared	= 39.96 = 0.0000 = 0.7016 = 0.6840
Total	.506097016	18	.028116501	Root MSE	= .09426
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	1.169828	.1850473	6.32	0.000	.7794121 1.560244
_cons	-.4222721	.4943792	-0.85	0.405	-1.465321 .6207767
Source	SS	df	MS	Number of obs	= 19
Model Residual	4.46584558 4.07630489	1 17	4.46584558 .239782641	F(1, 17) Prob > F R-squared Adj R-squared	= 18.62 = 0.0005 = 0.5228 = 0.4947
Total	8.54215047	18	.474563915	Root MSE	= .48968
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.7255134	.1681134	4.32	0.000	.370825 1.080202
_cons	.5138447	.3310748	1.55	0.139	-.1846622 1.212352

Source	SS	df	MS	Number of obs	=	19
Model	.347647452	1	.347647452	F(1, 17)	=	14.59
Residual	.405181266	17	.023834192	Prob > F	=	0.0014
Total	.752828718	18	.041823818	R-squared	=	0.4618
				Adj R-squared	=	0.4301
				Root MSE	=	.15438

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.9006069	.235812	3.82	0.001	.403087 1.398127
_cons	.3264172	.7028479	0.46	0.648	-1.156462 1.809297

Source	SS	df	MS	Number of obs	=	19
Model	1.14831298	1	1.14831298	F(1, 17)	=	41.21
Residual	.473729242	17	.027866426	Prob > F	=	0.0000
Total	1.62204222	18	.090113457	R-squared	=	0.7079
				Adj R-squared	=	0.6908
				Root MSE	=	.16693

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.8419008	.1311509	6.42	0.000	.5651965 1.118605
_cons	.5093374	.4143644	1.23	0.236	-.3648951 1.38357

Source	SS	df	MS	Number of obs	=	19
Model	.148720223	1	.148720223	F(1, 17)	=	12.72
Residual	.198705485	17	.011688558	Prob > F	=	0.0024
Total	.347425708	18	.019301428	R-squared	=	0.4281
				Adj R-squared	=	0.3944
				Root MSE	=	.10811

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.5286604	.1482082	3.57	0.002	.2159684 .8413524
_cons	1.366665	.4184218	3.27	0.005	.4838721 2.249458

Source	SS	df	MS	Number of obs	=	19
Model	.070573769	1	.070573769	F(1, 17)	=	10.23
Residual	.117282641	17	.006898979	Prob > F	=	0.0053
Total	.18785641	18	.010436467	R-squared	=	0.3757
				Adj R-squared	=	0.3390
				Root MSE	=	.08306

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.5006249	.1565248	3.20	0.005	.1703864 .8308634
_cons	1.278224	.4059595	3.15	0.006	.4217244 2.134724

Source	SS	df	MS	Number of obs	=	19
Model	1.80984248	1	1.80984248	F(1, 17)	=	56.62
Residual	.54339863	17	.031964625	Prob > F	=	0.0000
Total	2.35324112	18	.130735618	R-squared	=	0.7691
				Adj R-squared	=	0.7555
				Root MSE	=	.17879

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.7170421	.0952926	7.52	0.000	.5159924 .9180919
_cons	.1584495	.0794702	1.99	0.062	-.0092179 .3261168
Source	SS	df	MS	Number of obs	= 19
Model	.778963138	1	.778963138	F(1, 17)	= 46.44
Residual	.285154047	17	.016773767	Prob > F	= 0.0000
Total	1.06411719	18	.059117621	R-squared	= 0.7320
				Adj R-squared	= 0.7163
				Root MSE	= .12951
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.9229639	.1354383	6.81	0.000	.637214 1.208714
_cons	.2939787	.440433	0.67	0.513	-.6352537 1.223211
Source	SS	df	MS	Number of obs	= 19
Model	.411641629	1	.411641629	F(1, 17)	= 52.92
Residual	.132234063	17	.007778474	Prob > F	= 0.0000
Total	.543875691	18	.030215316	R-squared	= 0.7569
				Adj R-squared	= 0.7426
				Root MSE	= .0882
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.9715413	.1335515	7.27	0.000	.6897722 1.25331
_cons	.0485594	.1500116	0.32	0.750	-.2679374 .3650562
Source	SS	df	MS	Number of obs	= 19
Model	.366773936	1	.366773936	F(1, 17)	= 11.01
Residual	.566356815	17	.033315107	Prob > F	= 0.0041
Total	.933130751	18	.051840597	R-squared	= 0.3931
				Adj R-squared	= 0.3574
				Root MSE	= .18252
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.6968242	.2100122	3.32	0.004	.2537371 1.139911
_cons	.9058915	.6176797	1.47	0.161	-.3972988 2.209082
Source	SS	df	MS	Number of obs	= 19
Model	.742754646	1	.742754646	F(1, 17)	= 147.16
Residual	.085804875	17	.005047346	Prob > F	= 0.0000
Total	.828559521	18	.046031084	R-squared	= 0.8964
				Adj R-squared	= 0.8903
				Root MSE	= .07104
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.7571386	.0624143	12.13	0.000	.6254559 .8888213
_cons	.7856436	.1889338	4.16	0.001	.387028 1.184259

Source	SS	df	MS	Number of obs	=	19
Model	.460353897	1	.460353897	F(1, 17)	=	5.55
Residual	1.40997677	17	.08293981	Prob > F	=	0.0307
Total	1.87033066	18	.103907259	R-squared	=	0.2461
				Adj R-squared	=	0.2018
				Root MSE	=	.28799

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.5194072	.220467	2.36	0.031	.0542625 .9845519
_cons	1.226025	.5715421	2.15	0.047	.0201764 2.431873

Source	SS	df	MS	Number of obs	=	19
Model	.025348132	1	.025348132	F(1, 17)	=	3.64
Residual	.118275783	17	.006957399	Prob > F	=	0.0733
Total	.143623915	18	.007979106	R-squared	=	0.1765
				Adj R-squared	=	0.1280
				Root MSE	=	.08341

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.4195785	.2198182	1.91	0.073	-.0441974 .8833545
_cons	1.363803	.5168285	2.64	0.017	.2733903 2.454216

Source	SS	df	MS	Number of obs	=	19
Model	.015672259	1	.015672259	F(1, 17)	=	1.92
Residual	.138844798	17	.008167341	Prob > F	=	0.1839
Total	.154517057	18	.008584281	R-squared	=	0.1014
				Adj R-squared	=	0.0486
				Root MSE	=	.09037

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.2898169	.2092176	1.39	0.184	-.1515937 .7312276
_cons	2.283983	.6679476	3.42	0.003	.874737 3.693229

Source	SS	df	MS	Number of obs	=	19
Model	.204959152	1	.204959152	F(1, 17)	=	12.14
Residual	.2870381	17	.016884594	Prob > F	=	0.0028
Total	.491997252	18	.027333181	R-squared	=	0.4166
				Adj R-squared	=	0.3823
				Root MSE	=	.12994

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.5845003	.1677631	3.48	0.003	.2305511 .9384495
_cons	1.357309	.5429197	2.50	0.023	.2118482 2.502769

Source	SS	df	MS	Number of obs	=	19
Model	.539577566	1	.539577566	F(1, 17)	=	7.15
Residual	1.28370687	17	.075512169	Prob > F	=	0.0160
Total	1.82328444	18	.10129358	R-squared	=	0.2959
				Adj R-squared	=	0.2545
				Root MSE	=	.27479

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.542435	.2029221	2.67	0.016	.1143069 .9705632
_cons	1.292741	.5756043	2.25	0.038	.0783221 2.50716
Source	SS	df	MS	Number of obs	= 19
Model Residual	.594491512 .234282936	1 17	.594491512 .013781349	F(1, 17) Prob > F R-squared Adj R-squared	= 43.14 = 0.0000 = 0.7173 = 0.7007
Total	.828774448	18	.046043025	Root MSE	= .11739
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.6217879	.0946706	6.57	0.000	.4220503 .8215255
_cons	1.644473	.3993906	4.12	0.001	.8018326 2.487114
Source	SS	df	MS	Number of obs	= 19
Model Residual	1.10559689 2.12711149	1 17	1.10559689 .125124205	F(1, 17) Prob > F R-squared Adj R-squared	= 8.84 = 0.0085 = 0.3420 = 0.3033
Total	3.23270838	18	.17959491	Root MSE	= .35373
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.6047664	.203451	2.97	0.009	.1755222 1.034011
_cons	1.027495	.5475188	1.88	0.078	-.1276691 2.182658
Source	SS	df	MS	Number of obs	= 19
Model Residual	.416934293 .276322434	1 17	.416934293 .016254261	F(1, 17) Prob > F R-squared Adj R-squared	= 25.65 = 0.0001 = 0.6014 = 0.5780
Total	.693256727	18	.038514263	Root MSE	= .12749
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.7430378	.1467103	5.06	0.000	.433506 1.052569
_cons	.1989912	.104351	1.91	0.074	-.0211703 .4191526
Source	SS	df	MS	Number of obs	= 19
Model Residual	.462693546 .452181625	1 17	.462693546 .026598919	F(1, 17) Prob > F R-squared Adj R-squared	= 17.40 = 0.0006 = 0.5057 = 0.4767
Total	.914875172	18	.050826398	Root MSE	= .16309
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.7967484	.1910322	4.17	0.001	.3937058 1.199791
_cons	.501145	.4397651	1.14	0.270	-.4266783 1.428968

Source	SS	df	MS	Number of obs	=	19
Model	.501167081	1	.501167081	F(1, 17)	=	29.33
Residual	.290499877	17	.017088228	Prob > F	=	0.0000
Total	.791666957	18	.043981498	R-squared	=	0.6331
				Adj R-squared	=	0.6115
				Root MSE	=	.13072

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.7991832	.1475719	5.42	0.000	.4878338 1.110533
_cons	.7378939	.543763	1.36	0.193	-.4093457 1.885134

Source	SS	df	MS	Number of obs	=	19
Model	6.09324391	1	6.09324391	F(1, 17)	=	55.94
Residual	1.85175027	17	.108926486	Prob > F	=	0.0000
Total	7.94499418	18	.441388566	R-squared	=	0.7669
				Adj R-squared	=	0.7532
				Root MSE	=	.33004

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.8877089	.1186897	7.48	0.000	.6372955 1.138122
_cons	.3172054	.2439667	1.30	0.211	-.1975193 .8319301

Source	SS	df	MS	Number of obs	=	19
Model	1.46323687	1	1.46323687	F(1, 17)	=	61.65
Residual	.403471547	17	.02373362	Prob > F	=	0.0000
Total	1.86670841	18	.103706023	R-squared	=	0.7839
				Adj R-squared	=	0.7711
				Root MSE	=	.15406

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	1.007822	.1283537	7.85	0.000	.7370193 1.278625
_cons	.0350159	.4269363	0.08	0.936	-.865741 .9357728

Source	SS	df	MS	Number of obs	=	19
Model	1.21939834	1	1.21939834	F(1, 17)	=	164.41
Residual	.126083186	17	.007416658	Prob > F	=	0.0000
Total	1.34548152	18	.074748973	R-squared	=	0.9063
				Adj R-squared	=	0.9008
				Root MSE	=	.08612

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.9175273	.0715567	12.82	0.000	.7665559 1.068499
_cons	.255702	.1771357	1.44	0.167	-.1180217 .6294256

Source	SS	df	MS	Number of obs	=	19
Model	.452021922	1	.452021922	F(1, 17)	=	28.19
Residual	.272609894	17	.016035876	Prob > F	=	0.0001
Total	.724631817	18	.040257323	R-squared	=	0.6238
				Adj R-squared	=	0.6017
				Root MSE	=	.12663

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.7446583	.1402567	5.31	0.000	.4487425 1.040574
_cons	.8510926	.4485349	1.90	0.075	-.0952333 1.797419
Source	SS	df	MS	Number of obs	= 19
Model	.433147453	1	.433147453	F(1, 17)	= 3.39
Residual	2.17216998	17	.127774705	Prob > F	= 0.0831
Total	2.60531744	18	.144739858	R-squared	= 0.1663
				Adj R-squared	= 0.1172
				Root MSE	= .35746
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.4241915	.2303915	1.84	0.083	-.0618922 .9102751
_cons	1.703045	.6683266	2.55	0.021	.2929988 3.11309
Source	SS	df	MS	Number of obs	= 19
Model	.280545157	1	.280545157	F(1, 17)	= 14.85
Residual	.32108149	17	.018887146	Prob > F	= 0.0013
Total	.601626648	18	.033423703	R-squared	= 0.4663
				Adj R-squared	= 0.4349
				Root MSE	= .13743
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.7248496	.1880744	3.85	0.001	.3280473 1.121652
_cons	.8880584	.596045	1.49	0.155	-.3694866 2.145603
Source	SS	df	MS	Number of obs	= 19
Model	2.18305401	1	2.18305401	F(1, 17)	= 29.96
Residual	1.23881779	17	.072871635	Prob > F	= 0.0000
Total	3.4218718	18	.190103989	R-squared	= 0.6380
				Adj R-squared	= 0.6167
				Root MSE	= .26995
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.8019846	.1465254	5.47	0.000	.4928429 1.111126
_cons	.5507636	.372258	1.48	0.157	-.2346321 1.336159
Source	SS	df	MS	Number of obs	= 19
Model	.584576815	1	.584576815	F(1, 17)	= 31.69
Residual	.313576565	17	.01844568	Prob > F	= 0.0000
Total	.89815338	18	.04989741	R-squared	= 0.6509
				Adj R-squared	= 0.6303
				Root MSE	= .13581
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.8452927	.1501529	5.63	0.000	.5284978 1.162088
_cons	.5173334	.4715555	1.10	0.288	-.4775617 1.512228

Source	SS	df	MS	Number of obs	=	19
Model	.225702198	1	.225702198	F(1, 17)	=	18.56
Residual	.20671459	17	.012159682	Prob > F	=	0.0005
				R-squared	=	0.5220
Total	.432416788	18	.024023155	Adj R-squared	=	0.4938
				Root MSE	=	.11027

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.7148977	.1659347	4.31	0.000	.3648062 1.064989
_cons	.2906671	.173756	1.67	0.113	-.0759259 .6572602

Source	SS	df	MS	Number of obs	=	19
Model	.157544464	1	.157544464	F(1, 17)	=	5.32
Residual	.503393696	17	.029611394	Prob > F	=	0.0339
				R-squared	=	0.2384
Total	.660938161	18	.036718787	Adj R-squared	=	0.1936
				Root MSE	=	.17208

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.49092	.2128328	2.31	0.034	.041882 .9399581
_cons	1.170606	.4912756	2.38	0.029	.1341048 2.207107

Source	SS	df	MS	Number of obs	=	19
Model	1.08245848	1	1.08245848	F(1, 17)	=	83.51
Residual	.220360065	17	.012962357	Prob > F	=	0.0000
Total	1.30281854	18	.072378808	R-squared	=	0.8309
				Adj R-squared	=	0.8209
				Root MSE	=	.11385

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.8241724	.0901892	9.14	0.000	.6338899 1.014455
_cons	.5505111	.2519159	2.19	0.043	.019015 1.082007

Source	SS	df	MS	Number of obs	=	19
Model	.890370462	1	.890370462	F(1, 17)	=	14.93
Residual	1.01356481	17	.059621459	Prob > F	=	0.0012
Total	1.90393527	18	.105774182	R-squared	=	0.4676
				Adj R-squared	=	0.4363
				Root MSE	=	.24418

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.6750324	.1746789	3.86	0.001	.306492 1.043573
_cons	.7691091	.4302465	1.79	0.092	-.1386316 1.67685

Source	SS	df	MS	Number of obs	=	19
Model	.144277072	1	.144277072	F(1, 17)	=	9.98
Residual	.245676012	17	.01445153	Prob > F	=	0.0057
Total	.389953084	18	.02166406	R-squared	=	0.3700
				Adj R-squared	=	0.3329
				Root MSE	=	.12021

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.6885734	.2179257	3.16	0.006	.2287903 1.148357
_cons	.9940749	.6817144	1.46	0.163	-.4442167 2.432367
Source	SS	df	MS	Number of obs	= 19
Model	.313028125	1	.313028125	F(1, 17)	= 17.42
Residual	.305468855	17	.017968756	Prob > F	= 0.0006
Total	.618496979	18	.034360943	R-squared	= 0.5061
				Adj R-squared	= 0.4771
				Root MSE	= .13405
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.8009386	.1918963	4.17	0.001	.3960728 1.205804
_cons	.5603493	.5200301	1.08	0.296	-.5368183 1.657517
Source	SS	df	MS	Number of obs	= 19
Model	.133626386	1	.133626386	F(1, 17)	= 5.28
Residual	.43018114	17	.025304773	Prob > F	= 0.0345
Total	.563807526	18	.03132264	R-squared	= 0.2370
				Adj R-squared	= 0.1921
				Root MSE	= .15907
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.4357931	.1896424	2.30	0.035	.0356826 .8359036
_cons	1.689837	.5606705	3.01	0.008	.5069259 2.872748
Source	SS	df	MS	Number of obs	= 19
Model	.487919076	1	.487919076	F(1, 17)	= 4.60
Residual	1.80456662	17	.106150977	Prob > F	= 0.0468
Total	2.29248569	18	.127360316	R-squared	= 0.2128
				Adj R-squared	= 0.1665
				Root MSE	= .32581
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.4557081	.2125567	2.14	0.047	.0072526 .9041635
_cons	1.081948	.4258175	2.54	0.021	.1835517 1.980344
Source	SS	df	MS	Number of obs	= 19
Model	.200905712	1	.200905712	F(1, 17)	= 1.87
Residual	1.82300507	17	.107235592	Prob > F	= 0.1889
Total	2.02391078	18	.112439488	R-squared	= 0.0993
				Adj R-squared	= 0.0463
				Root MSE	= .32747
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.3878236	.2833398	1.37	0.189	-.2099711 .9856182
_cons	1.299107	.5900289	2.20	0.042	.0542546 2.543959

Source	SS	df	MS	Number of obs	=	19
Model	.556662701	1	.556662701	F(1, 17)	=	29.91
Residual	.316339252	17	.018608191	Prob > F	=	0.0000
Total	.873001953	18	.048500108	R-squared	=	0.6376
				Adj R-squared	=	0.6163
				Root MSE	=	.13641

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.7955744	.1454577	5.47	0.000	.4886854 1.102463
_cons	.607301	.3961237	1.53	0.144	-.2284468 1.443049

Source	SS	df	MS	Number of obs	=	19
Model	.818599157	1	.818599157	F(1, 17)	=	76.96
Residual	.180833877	17	.010637287	Prob > F	=	0.0000
Total	.999433034	18	.055524057	R-squared	=	0.8191
				Adj R-squared	=	0.8084
				Root MSE	=	.10314

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.8879731	.1012231	8.77	0.000	.6744111 1.101535
_cons	.4027025	.3295969	1.22	0.238	-.2926862 1.098091

Source	SS	df	MS	Number of obs	=	19
Model	.697478967	1	.697478967	F(1, 17)	=	59.10
Residual	.200637327	17	.011802196	Prob > F	=	0.0000
Total	.898116294	18	.04989535	R-squared	=	0.7766
				Adj R-squared	=	0.7635
				Root MSE	=	.10864

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.8992874	.1169807	7.69	0.000	.6524796 1.146095
_cons	.3323074	.3595483	0.92	0.368	-.4262733 1.090888

Source	SS	df	MS	Number of obs	=	19
Model	.344519955	1	.344519955	F(1, 17)	=	17.57
Residual	.333369635	17	.019609979	Prob > F	=	0.0006
Total	.677889589	18	.037660533	R-squared	=	0.5082
				Adj R-squared	=	0.4793
				Root MSE	=	.14004

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.7411497	.1768224	4.19	0.001	.368087 1.114212
_cons	.7714957	.5089825	1.52	0.148	-.3023636 1.845355

Source	SS	df	MS	Number of obs	=	19
Model	3.40113051	1	3.40113051	F(1, 17)	=	46.35
Residual	1.2475308	17	.073384165	Prob > F	=	0.0000
Total	4.64866131	18	.258258962	R-squared	=	0.7316
				Adj R-squared	=	0.7159
				Root MSE	=	.2709

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.7730717	.1135558	6.81	0.000	.5334899 1.012653
_cons	.2222023	.1480584	1.50	0.152	-.0901736 .5345782
Source	SS	df	MS	Number of obs	= 19
Model	.333607086	1	.333607086	F(1, 17)	= 20.92
Residual	.271071335	17	.015945373	Prob > F	= 0.0003
Total	.604678421	18	.033593246	R-squared	= 0.5517
				Adj R-squared	= 0.5253
				Root MSE	= .12627
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.5773099	.1262143	4.57	0.000	.3110209 .8435989
_cons	1.293526	.3779793	3.42	0.003	.4960598 2.090993
Source	SS	df	MS	Number of obs	= 19
Model	.571607318	1	.571607318	F(1, 17)	= 19.73
Residual	.492551481	17	.028973617	Prob > F	= 0.0004
Total	1.0641588	18	.059119933	R-squared	= 0.5371
				Adj R-squared	= 0.5099
				Root MSE	= .17022
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.6173875	.1389986	4.44	0.000	.3241262 .9106488
_cons	1.256549	.4389665	2.86	0.011	.3304112 2.182688
Source	SS	df	MS	Number of obs	= 19
Model	.242973244	1	.242973244	F(1, 17)	= 4.53
Residual	.911063089	17	.053591946	Prob > F	= 0.0481
Total	1.15403633	18	.06411313	R-squared	= 0.2105
				Adj R-squared	= 0.1641
				Root MSE	= .2315
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.483381	.2270179	2.13	0.048	.0044151 .962347
_cons	1.342591	.5820161	2.31	0.034	.1146442 2.570538
Source	SS	df	MS	Number of obs	= 19
Model	8.09752341	1	8.09752341	F(1, 17)	= 84.01
Residual	1.63861889	17	.096389346	Prob > F	= 0.0000
Total	9.7361423	18	.540896794	R-squared	= 0.8317
				Adj R-squared	= 0.8218
				Root MSE	= .31047
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.807619	.088114	9.17	0.000	.6217147 .9935234
_cons	.8571847	.3557214	2.41	0.028	.1066782 1.607691

Source	SS	df	MS	Number of obs	=	19
Model	.826749486	1	.826749486	F(1, 17)	=	19.89
Residual	.706554108	17	.041562006	Prob > F	=	0.0003
				R-squared	=	0.5392
Total	1.53330359	18	.085183533	Adj R-squared	=	0.5121
				Root MSE	=	.20387

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.6567013	.1472411	4.46	0.000	.3460496 .9673529
_cons	.9062792	.3652577	2.48	0.024	.1356528 1.676906

Source	SS	df	MS	Number of obs	=	19
Model	.023084064	1	.023084064	F(1, 17)	=	2.91
Residual	.134776788	17	.007928046	Prob > F	=	0.1061
				R-squared	=	0.1462
Total	.157860853	18	.008770047	Adj R-squared	=	0.0960
				Root MSE	=	.08904

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.4370588	.2561337	1.71	0.106	-.1033362 .9774537
_cons	2.531582	1.146421	2.21	0.041	.1128454 4.950319

Source	SS	df	MS	Number of obs	=	19
Model	16.147491	1	16.147491	F(1, 17)	=	46.97
Residual	5.84441918	17	.343789364	Prob > F	=	0.0000
Total	21.9919102	18	1.22177279	R-squared	=	0.7342
				Adj R-squared	=	0.7186
				Root MSE	=	.58634

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.8449573	.1232902	6.85	0.000	.5848378 1.105077
_cons	.257662	.2659409	0.97	0.346	-.3034242 .8187483

Source	SS	df	MS	Number of obs	=	19
Model	15.6033087	1	15.6033087	F(1, 17)	=	85.58
Residual	3.09968416	17	.182334363	Prob > F	=	0.0000
Total	18.7029928	18	1.03905516	R-squared	=	0.8343
				Adj R-squared	=	0.8245
				Root MSE	=	.42701

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.8719608	.094259	9.25	0.000	.6730917 1.07083
_cons	.1134603	.1868945	0.61	0.552	-.2808526 .5077731

Source	SS	df	MS	Number of obs	=	19
Model	1.8275119	1	1.8275119	F(1, 17)	=	111.05
Residual	.279765894	17	.016456817	Prob > F	=	0.0000
				R-squared	=	0.8672
Total	2.1072778	18	.117070989	Adj R-squared	=	0.8594
				Root MSE	=	.12828

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.8968876	.0851101	10.54	0.000	.7173211 1.076454
_cons	.2867668	.1946986	1.47	0.159	-.1240113 .6975448
Source	SS	df	MS	Number of obs	= 19
Model Residual	2.89810461 .76690519	1 17	2.89810461 .04511207	F(1, 17) Prob > F R-squared Adj R-squared	= 64.24 = 0.0000 = 0.7907 = 0.7784
Total	3.6650098	18	.203611655	Root MSE	= .2124
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.8961513	.1118074	8.02	0.000	.6602582 1.132044
_cons	.1272948	.1428035	0.89	0.385	-.1739942 .4285839
Source	SS	df	MS	Number of obs	= 19
Model Residual	.056298652 .569832414	1 17	.056298652 .033519554	F(1, 17) Prob > F R-squared Adj R-squared	= 1.68 = 0.2123 = 0.0899 = 0.0364
Total	.626131065	18	.034785059	Root MSE	= .18308
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.3192205	.246315	1.30	0.212	-.2004587 .8388997
_cons	1.559947	.5697489	2.74	0.014	.3578823 2.762012
Source	SS	df	MS	Number of obs	= 19
Model Residual	.635519268 .389007619	1 17	.635519268 .022882801	F(1, 17) Prob > F R-squared Adj R-squared	= 27.77 = 0.0001 = 0.6203 = 0.5980
Total	1.02452689	18	.05691816	Root MSE	= .15127
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.7709649	.1462934	5.27	0.000	.4623127 1.079617
_cons	.5184506	.318752	1.63	0.122	-.1540573 1.190959
Source	SS	df	MS	Number of obs	= 19
Model Residual	.556718059 .163568417	1 17	.556718059 .009621672	F(1, 17) Prob > F R-squared Adj R-squared	= 57.86 = 0.0000 = 0.7729 = 0.7596
Total	.720286476	18	.040015915	Root MSE	= .09809
lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres L1.	.8782655	.1154605	7.61	0.000	.6346652 1.121866
_cons	.4709864	.4176081	1.13	0.275	-.4100896 1.352062

Source	SS	df	MS	Number of obs	=	19
Model	.000079873	1	.000079873	F(1, 17)	=	0.01
Residual	.219916513	17	.012936265	Prob > F	=	0.9383
Total	.219996385	18	.012222021	R-squared	=	0.0004
				Adj R-squared	=	-0.0584
				Root MSE	=	.11374

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.0274663	.3495468	0.08	0.938	-.7100129 .7649455
_cons	2.34569	.8485167	2.76	0.013	.5554766 4.135904

Source	SS	df	MS	Number of obs	=	19
Model	.677145891	1	.677145891	F(1, 17)	=	8.71
Residual	1.32125401	17	.077720824	Prob > F	=	0.0089
Total	1.9983999	18	.111022217	R-squared	=	0.3388
				Adj R-squared	=	0.3000
				Root MSE	=	.27878

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.5385612	.1824579	2.95	0.009	.1536087 .9235136
_cons	1.300525	.5019502	2.59	0.019	.2415027 2.359547

Source	SS	df	MS	Number of obs	=	19
Model	1.22822162	1	1.22822162	F(1, 17)	=	126.23
Residual	.16541633	17	.009730372	Prob > F	=	0.0000
Total	1.39363795	18	.07742433	R-squared	=	0.8813
				Adj R-squared	=	0.8743
				Root MSE	=	.09864

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	1.004723	.0894278	11.24	0.000	.8160465 1.193399
_cons	.0255826	.1320588	0.19	0.849	-.2530371 .3042022

Source	SS	df	MS	Number of obs	=	19
Model	.081021442	1	.081021442	F(1, 17)	=	18.02
Residual	.076424418	17	.004495554	Prob > F	=	0.0005
Total	.15744586	18	.008746992	R-squared	=	0.5146
				Adj R-squared	=	0.4860
				Root MSE	=	.06705

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lres					
L1.	.713022	.1679556	4.25	0.001	.3586666 1.067377
_cons	.1405897	.0819155	1.72	0.104	-.0322369 .3134162

Source	SS	df	MS	Number of obs	=	19
Model	.953892851	1	.953892851	F(1, 17)	=	17.12
Residual	.947351199	17	.055726541	Prob > F	=	0.0007
Total	1.90124405	18	.105624669	R-squared	=	0.5017
				Adj R-squared	=	0.4724
				Root MSE	=	.23606

lres	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
L1.	.7656055	.1850488	4.14	0.001	.3751866	1.156024
_cons	.7337648	.5372386	1.37	0.190	-.3997095	1.867239

```
.
. outreg2 [ar_*] using "ar_all.xml", replace `switches'
ar_all.rtf
ar_all.xml
dir : seeout

.
. **# Table B.2. Panel threshold regressions.
.
. label list rn
rn:
    1 EAS
    2 ECS
    3 LCN
    4 MEA
    5 NAC
    6 SAS
    7 SSF

.
. xthreg lreer lgdppk_m100 lgovexp if count_lgovexp==20, ///
> rx(etot) qx(1.lres) thnum(1) grid(100) bs(100)
Estimating the threshold parameters: 1st ..... Done
Bootstrap for single threshold
..... + 50
..... + 100

Threshold estimator (level = 95):
```

model	Threshold	Lower	Upper
Th-1	1.4260	1.2928	1.4643

Threshold effect test (bootstrap = 100):

Threshold	RSS	MSE	Fstat	Prob	Crit10	Crit5	Crit1
Single	25.7780	0.0137	34.68	0.1900	46.3374	49.7397	65.2102

```
Fixed-effects (within) regression                               Number of obs      =     1,900
Group variable: cn                                         Number of groups   =       100
                                                              
R-squared:                                                 Obs per group:
    Within = 0.1288                                         min =          19
    Between = 0.1256                                        avg =        19.0
    Overall = 0.0355                                       max =          19
                                                              
                                                               F(4, 1796)      =     66.35
corr(u_i, Xb) = -0.9705                                     Prob > F        = 0.0000
```

lreer	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
lgdppk_m100	.7003834	.0522814	13.40	0.000	.5978447	.8029222
lgovexp	.1498357	.0209408	7.16	0.000	.1087648	.1909066
_cat#c.etot						
0	.0405058	.0106077	3.82	0.000	.0197012	.0613104
1	-.0236562	.003966	-5.96	0.000	-.0314347	-.0158776
_cons	.9752591	.2520121	3.87	0.000	.4809912	1.469527

sigma_u	.43911038
sigma_e	.11980407
rho	.93071897 (fraction of variance due to u_i)

F test that all u_i=0: F(99, 1796) = 14.35 Prob > F = 0.0000

```
.
. // East Asia and Pacific + South Asia
. xthreg lreer lgdppk_m100 lgovexp if count_lgovexp==20 & ///
> rn==1 | rn==6, ///
> rx(etot) qx(1.lres) thnum(1) grid(100) bs(300)
Estimating the threshold parameters: 1st ..... Done
Bootstrap for single threshold
..... + 50
..... + 100
..... + 150
..... + 200
..... + 250
..... + 300
```

Threshold estimator (level = 95):

model	Threshold	Lower	Upper
Th-1	4.4547	4.3810	4.5093

Threshold effect test (bootstrap = 300):

Threshold	RSS	MSE	Fstat	Prob	Crit10	Crit5	Crit1
Single	2.7595	0.0085	10.96	0.4233	21.4214	24.2345	32.6072

```
Fixed-effects (within) regression
Number of obs      =      342
Group variable: cn
Number of groups   =       18

R-squared:
Within = 0.5133
Between = 0.2647
Overall = 0.0402

Obs per group:
min = 19
avg = 19.0
max = 19

F(4, 320)          =     84.38
Prob > F          = 0.0000
```

lreer	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lgdppk_m100	1.246837	.0759256	16.42	0.000	1.09746 1.396213
lgovexp	.2433502	.0469865	5.18	0.000	.1509087 .3357917
_cat#c.etot					
0	-.0265491	.0080741	-3.29	0.001	-.0424341 -.010664
1	-.2889394	.0843511	-3.43	0.001	-.4548922 -.1229866
_cons	-1.549518	.3558668	-4.35	0.000	-2.249652 -.8493838
sigma_u	.74704161				
sigma_e	.09302189				
rho	.98473142	(fraction of variance due to u_i)			

F test that all u_i=0: F(17, 320) = 33.34 Prob > F = 0.0000

```
.
. // Europe and Central Asia
. xthreg lreer lgpdk_m100 lgovexp if count_lgovexp==20 & ///
> rn==2, ///
> rx(etot) qx(l.lres) thnum(1) grid(100) bs(300)
Estimating the threshold parameters: 1st ..... Done
Bootstrap for single threshold
..... + 50
..... + 100
..... + 150
..... + 200
..... + 250
..... + 300
```

Threshold estimator (level = 95):

model	Threshold	Lower	Upper
Th-1	2.9058	2.8780	2.9323

Threshold effect test (bootstrap = 300):

Threshold	RSS	MSE	Fstat	Prob	Crit10	Crit5	Crit1
Single	6.0819	0.0082	39.80	0.0333	26.6422	36.5700	49.6678

```
Fixed-effects (within) regression
Number of obs      =      760
Group variable: cn
Number of groups   =       40

R-squared:
Within = 0.1565
Between = 0.0006
Overall = 0.0025

Obs per group:
min = 19
avg = 19.0
max = 19

F(4, 716) = 33.20
Prob > F = 0.0000
corr(u_i, Xb) = -0.9408
```

lreer	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lgdppk_m100	.5617542	.0602636	9.32	0.000	.4434397 .6800688
lgovexp	.1789897	.0420007	4.26	0.000	.0965305 .2614489
_cat#c.etot					
0	.0352914	.0066118	5.34	0.000	.0223106 .0482722
1	-.0207806	.0076217	-2.73	0.007	-.0357442 -.0058169
_cons	1.270204	.3449033	3.68	0.000	.5930615 1.947347
sigma_u	.21312615				
sigma_e	.09216416				
rho	.84245722	(fraction of variance due to u_i)			

F test that all u_i=0: F(39, 716) = 9.96 Prob > F = 0.0000

. sum L1lres if L1lres <= 2.90 & rn==2 & count_lgovexp==20

Variable	Obs	Mean	Std. dev.	Min	Max
L1lres	503	1.681758	.7904066	.0925683	2.899814

```
. sum L1lres if L1lres > 2.90 & rn==2 & count_lgovexp==20
```

Variable	Obs	Mean	Std. dev.	Min	Max
L1lres	257	3.195559	.2236893	2.901586	4.22689

```
.
. // Latin American Countries
. xthreg lreer lgpdk_m100 lgovexp if count_lgovexp==20 & ///
> rn==3, ///
> rx(etot) qx(l.lres) thnum(1) grid(100) bs(300)
Estimating the threshold parameters: 1st ..... Done
Bootstrap for single threshold
..... + 50
..... + 100
..... + 150
..... + 200
..... + 250
..... + 300
```

Threshold estimator (level = 95):

model	Threshold	Lower	Upper
Th-1	3.1938	3.1711	3.2583

Threshold effect test (bootstrap = 300):

Threshold	RSS	MSE	Fstat	Prob	Crit10	Crit5	Crit1
Single	5.8647	0.0193	3.56	0.9000	26.6393	31.8131	50.1460

```
Fixed-effects (within) regression
Number of obs      =      323
Group variable: cn
Number of groups   =       17

R-squared:
Within = 0.1639
Between = 0.2121
Overall = 0.0435

Obs per group:
min = 19
avg = 19.0
max = 19

F(4, 302)          =     14.81
Prob > F           = 0.0000
```

lreer	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lgdppk_m100	1.127098	.2169958	5.19	0.000	.7000826 1.554113
lgovexp	.2499776	.0682831	3.66	0.000	.1156067 .3843485
_cat#c.etot					
0	-.047526	.0139941	-3.40	0.001	-.0750643 -.0199877
1	.0083845	.0315079	0.27	0.790	-.0536183 .0703874
_cons	-1.093525	1.009135	-1.08	0.279	-3.079352 .8923019
sigma_u	.33387603				
sigma_e	.13935432				
rho	.8516372	(fraction of variance due to u_i)			

F test that all u_i=0: F(16, 302) = 13.84 Prob > F = 0.0000

```
.
. // Middle East and North Africa
. xthreg lreer lgdppk_m100 lgovexp if count_lgovexp==20 & ///
> rn==4 & cn!=60, ///
> rx(etot) qx(1.lres) thnum(1) grid(200) bs(200)
Estimating the threshold parameters: 1st ..... Done
Bootstrap for single threshold
..... + 50
..... + 100
..... + 150
..... + 200
```

Threshold estimator (level = 95):

model	Threshold	Lower	Upper
Th-1	3.3463	3.2554	3.3566

Threshold effect test (bootstrap = 200):

Threshold	RSS	MSE	Fstat	Prob	Crit10	Crit5	Crit1
Single	0.8647	0.0091	20.91	0.0100	13.7804	15.9468	19.7510

```
Fixed-effects (within) regression
Number of obs      =      114
Group variable: cn
Number of groups   =        6

R-squared:
Within = 0.3211
Between = 0.5489
Overall = 0.0209

Obs per group:
min = 19
avg = 19.0
max = 19

F(4, 104)          = 12.30
corr(u_i, Xb) = -0.8765
Prob > F          = 0.0000
```

lreer	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lgdppk_m100	-.2885083	.1930961	-1.49	0.138	-.671425
lgovexp	-.046206	.0731987	-0.63	0.529	-.1913618
_cat#c.etot					
0	-.137756	.0222626	-6.19	0.000	-.1819036
1	-.0217167	.0143899	-1.51	0.134	-.0502524
_cons	6.191696	.9714945	6.37	0.000	4.265186
sigma_u	.19740156				
sigma_e	.09130455				
rho	.82376674	(fraction of variance due to u_i)			

F test that all u_i=0: F(5, 104) = 16.04 Prob > F = 0.0000

. sum L1lres if L1lres <= 3.34 & rn==4 & cn!=60 & count_lgovexp==20

Variable	Obs	Mean	Std. dev.	Min	Max
L1lres	66	2.848048	.4120992	1.594364	3.331099

```
. sum L1lres if L1lres > 3.34 & rn==4 & cn!=60 & count_lgovexp==20
```

Variable	Obs	Mean	Std. dev.	Min	Max
L1lres	48	4.024932	.4699398	3.346336	4.697033

```
. **# Fig. B.1. Threshold effect in the ECS region.
```

```
. gen resgdp = (res/gdp)*100
```

```
. by cn: egen resgdp_full = mean(resgdp)
```

```
. by cn: egen resgdp_before = mean(resgdp) if year<2008  
(1,300 missing values generated)
```

```
. by cn: egen resgdp_after = mean(resgdp) if year>2009  
(900 missing values generated)
```

```
. by cn: egen resgdp_full_sd = sd(resgdp)
```

```
. by cn: egen resgdp_before_sd = sd(resgdp) if year<2008  
(1,300 missing values generated)
```

```
. by cn: egen resgdp_after_sd = sd(resgdp) if year>2009  
(900 missing values generated)
```

```
. **# Threshold effect in the ECS region
```

```
. graph hbar resgdp_before resgdp_after ///  
> if region=="ECS" & eurozone==0, over(cn, sort(2)) ///  
> label(labsize(small)) ///  
> legend(col(1)) yline(17.28) ///  
> title("Threshold in the ECS region without EZ")
```

```
. graph rename Graph Thres_Res, replace  
(note: graph Thres_Res not found)
```

```
. graph export Thres_Res.png, as(png) name("Thres_Res") replace  
file Thres_Res.png saved as PNG format
```

```
. graph export Thres_Res.pdf, as(pdf) name("Thres_Res") replace  
file Thres_Res.pdf saved as PDF format
```

```
. **# Table B.3. Dynamic threshold panel model (Kremer et al., 2013).
```

```
. **Dynamic panel threshold
```

```
. *ssc install xtendothresdpd
```

```
. xtendothresdpd lreer l.lreer lgdppk_m100 lgovexp ///  
> if count_lgovexp==20, sig(0.05) ///  
> thresv(l2.f1) stub(enr) pivar(etot_L1lres) ///  
> dgmmiv(lres, lagrange(6 9)) ///  
> fodeviation lagsret(1)
```

```
=====
=====
```

```
Performing Dynamic Panel Data Threshold Effects with  
Endogenous Regressors Estimations.
```

```
This may take some time, please wait.
```

```
=====
=====
```

Dynamic panel-data estimation
 Group variable: **cn**
 Time variable: **year**

Number of obs	=	1,800
Number of groups	=	100
Obs per group:		
min =	18	
avg =	18	
max =	18	
Number of instruments	=	51
		Wald chi2(5) = 412.91
		Prob > chi2 = 0.0000

One-step results

lreer	Coefficient	Std. err.	z	P> z	[95% conf. interval]
lreer					
L1.	.7779625	.0520512	14.95	0.000	.675944 .879981
below_thres_enr	-.0104291	.0042923	-2.43	0.015	-.0188418 -.0020163
above_thres_enr	-.0059964	.0097364	-0.62	0.538	-.0250794 .0130865
lgdppk_m100	.0109827	.2589113	0.04	0.966	-.4964741 .5184394
lgovexp	-.1298436	.063148	-2.06	0.040	-.2536113 -.0060758
_cons	1.331219	1.114979	1.19	0.233	-.8540999 3.516537

Instruments for differenced equation

GMM-type: L(6/9).lres

Instruments for level equation

Standard: _cons

(All differences are forward-orthogonal deviations)

Threshold Parameter (level = 95)

	Threshold	Lower	Upper
Gamma_Hat	.4689044	.457168	.4804752

```
.
. estat sargan
Sargan test of overidentifying restrictions
H0: Overidentifying restrictions are valid
```

```
chi2(45) = 56.55573
Prob > chi2 = 0.1158
```

```
.
. ereturn list
```

scalars:

```
e(rank) = 6
e(sig2) = .0046172495559883
e(rss) = 7.821620747844108
e(N) = 1800
e(N_g) = 100
e(g_min) = 18
e(g_max) = 18
e(g_avg) = 18
e(t_min) = 2001
e(t_max) = 2020
e(chi2) = 412.9053450231372
e(df_m) = 5
e(zrank) = 51
e(artests) = 0
e(sargan) = 56.55572647763142
e(gammahat) = .4689044058322905
e(sofgammahat) = 13.32598405131961
e(sigmahatsq) = .0083287400320748
e(confalpha) = 7.352276694155739
e(gridpoints) = 400
e(alphaparam) = .05
e(lastpctz) = 90
e(firstpctz) = 10
e(uppbgamma) = .480475187301636
```

```

e(lowbgamma) = .457167983055115
e(toptimal) = 17
e(noptimal) = 100

macros:
    e(cmdline) : "xtendothresdpd lreer 1.lreer lgdppk_m100 lgovexp if count_lgovexp==20, sig(0.05) thresv(l2
        e(cmd) : "xtendothresdpd"
        e(predict) : "xtendothresdpd_p"
    e(abovethreszha) : "above_thres_enr"
    e(belowthreszha) : "below_thres_enr"
    e(subsetgammazha) : "enr_subsetgamma"
        e(lrof gammazha) : "enr_lrof gamma"
        e(sof gammazha) : "enr_sof gamma"
        e(gammavarzha) : "enr_gamma"
        e(pivaribzha) : "etot_L1lres"
    e(thresvaribzha) : "L2.fi"
    e(lesoptionsdp) : "dgmmiv(lres, lagrange(6 9)) fodeviation"
        e(estat_cmd) : "xtdpd_estat"
        e(marginsok) : "XB default"
        e(depvar) : "lreer"
    e(transform) : "fodeviation"
        e(tvar) : "year"
        e(ivars) : "cn"
    e(datasignaturevars) : "lreer L.lreer below_thres_enr above_thres_enr lgdppk_m100 lgovexp lres"
    e(datasignature) : "2000:385(83594):2126215046:4086152326"
        e(system) : "system"
        e(vce) : "gmm"
    e(properties) : "b V"

matrices:
    e(b) : 1 x 6
    e(V) : 6 x 6

functions:
    e(sample)

.

. twoway line enr_lrof gamma enr_gamma if _000001, ///
>         title("Confidence Interval Construction for the Threshold Model") ///
>         xtitle("Threshold parameter") ytitle("LR statistics") sort ///
>         yline(7.352276694155739, lcolor(black)) name(enr_dethgrp, replace)

.

. graph export "DPTR_LR.pdf", as(pdf) name("enr_dethgrp") replace
file DPTR_LR.pdf saved as PDF format

.

. /*
> set seed 542020
>
> xtendothresdpdtest, cmdline(`e(cmdline)') reps(50)
>
> ereturn list
>
> matrix list e(b)
> */
.

. **# Table B.4. Dynamic threshold panel model (Seo and Shin, 2016).
.

. *search xthenreg
. *net install st0573.pkg

```

```
. *ssc install moremata
.
. xtdescribe
```

```
cn: 1, 2, ..., 109 n = 100
year: 2001, 2002, ..., 2020 T = 20
Delta(year) = 1 unit
Span(year) = 20 periods
(cn*year uniquely identifies each observation)
```

Distribution of T_i:	min	5%	25%	50%	75%	95%	max
	20	20	20	20	20	20	20

Freq.	Percent	Cum.	Pattern
100	100.00	100.00	11111111111111111111
100	100.00		XXXXXXXXXXXXXXXXXXXXXX

```
.
. by cn: egen idfour = seq(), block(3)

. foreach v of varlist lreer fi lgdppk_m100 lgovexp etot_lres irr kaopen {
  2.      sort cn idfour
  3.          by cn idfour: egen double avg_`v' = mean(`v')
  4.      }
(7 missing values generated)
(23 missing values generated)
```

```
.
. collapse (first) avg_lreer avg_fi avg_lgdppk_m100 avg_lgovexp ///
> avg_etot_lres avg_irr avg_kaopen, by(cn idfour)
```

```
.
. xtset cn idfour
```

Panel variable: cn (strongly balanced)
 Time variable: idfour, 1 to 7
 Delta: 1 unit

```
.
. xtdescribe
```

```
cn: 1, 2, ..., 109 n = 100
idfour: 1, 2, ..., 7 T = 7
Delta(idfour) = 1 unit
Span(idfour) = 7 periods
(cn*idfour uniquely identifies each observation)
```

Distribution of T_i:	min	5%	25%	50%	75%	95%	max
	7	7	7	7	7	7	7

Freq.	Percent	Cum.	Pattern
100	100.00	100.00	11111111
100	100.00		XXXXXXX

```
.
. xthenreg avg_lreer avg_fi ///
>           avg_lgdppk_m100 avg_lgovexp avg_irr avg_kaopen ///
>           , ///
>           endogenous(avg_etot_lres) ///
>           grid_num(150) boost(50)
3 sample(s) are ignored further due to missing values
```

N = 96, T = 7
 Panel Var. = cn
 Time Var. = idfour
 Number of moment conditions = 55
 Bootstrap p-value for linearity test = 0

avg_lreer	Coefficient	Std. err.	z	P> z	[95% conf. interval]
-----------	-------------	-----------	---	------	----------------------

Lag_y_b	.0499455	.0753589	0.66	0.507	-.0977553	.1976462
avg_lgdppk_m100_b	.6663557	.1402011	4.75	0.000	.3915667	.9411447
avg_lgovexp_b	.0728186	.0320923	2.27	0.023	.0099189	.1357183
avg_irr_b	-.0249909	.0041091	-6.08	0.000	-.0330445	-.0169372
avg_kaopen_b	-.0069381	.0095876	-0.72	0.469	-.0257294	.0118532
avg_etot_lres_b	-.0248048	.0037943	-6.54	0.000	-.0322415	-.0173682
cons_d	.9853632	1.482567	0.66	0.506	-1.920415	3.891141
Lag_y_d	.9437402	.1474508	6.40	0.000	.6547419	1.232738
avg_lgdppk_m100_d	-.8787601	.2840162	-3.09	0.002	-1.435422	-.3220986
avg_lgovexp_d	-.4535994	.118182	-3.84	0.000	-.6852318	-.221967
avg_irr_d	.0398329	.0113158	3.52	0.000	.0176543	.0620114
avg_kaopen_d	-.0436174	.0395347	-1.10	0.270	-.1211041	.0338692
avg_etot_lres_d	.016132	.0072829	2.22	0.027	.0018578	.0304063
r	.4641037	.0353228	13.14	0.000	.3948723	.5333351

```
.
. /*
> sum avg_fi if avg_fi <= 0.6466778
> sum avg_fi if avg_fi > 0.6466778
> */
.
. /*
> ereturn list
> matrix list e(b)
> matrix list e(V)
> matrix list e(CI)
> scalar list
> display e(bs)
> */
.
.
. **# Fig. B.2. Panel LP for the buffer effect on the RER.
.
. use datafintransformed-22-11-17, clear
.
. ssc install locproj
checking locproj consistency and verifying not already installed...
all files already exist and are up to date.

.
. locproj lreer etot L1lres (c.etot#c.L1lres) l(1).lgdppk_m100 ///
> l(1).lgovexp l(1).IRR if count_lgovexp==20, fe ///
> z robust ///
> lcs((c.etot#c.L1lres)) title(`"lcs((c.etot#c.L1lres))"')
```

Impulse Response Function

	IRF	Std.Err.	IRF LOW	IRF UP
0	-0.01915	0.00706	-0.03315	-0.00514
1	-0.02044	0.00676	-0.03386	-0.00703
2	-0.01696	0.00658	-0.03002	-0.00390
3	-0.00973	0.00646	-0.02255	0.00309
4	-0.00404	0.00657	-0.01707	0.00900
5	-0.00130	0.00679	-0.01477	0.01217

```
.
. graph rename Graph ivfi_lcs, replace
(note: graph ivfi_lcs not found)
```

```
.
. locproj lreer etot L1lres (c.etot#c.L1lres) l(1).lgdppk_m100 ///
> l(1).lgovexp l(1).irr if count_lgovexp==20, fe ///
> z robust ///
> lcs(etot+(c.etot#c.L1lres)) title(`"lcs(etot+(c.etot#c.L1lres))"')
```

Impulse Response Function

	IRF	Std.Err.	IRF LOW	IRF UP
0	0.01274	0.01442	-0.01587	0.04135
1	0.01818	0.01434	-0.01027	0.04663
2	0.01392	0.01362	-0.01311	0.04094
3	0.00428	0.01353	-0.02257	0.03114
4	-0.00273	0.01358	-0.02969	0.02422
5	-0.00215	0.01317	-0.02828	0.02398

```
.
. graph rename Graph ivfi_lcs1, replace
(note: graph ivfi_lcs1 not found)

.
. locproj lreer etot L1lres (c.etot#c.L1lres) l(1).lgdppk_m100 ///
> l(1).lgovexp l(1).irr if count_lgovexp==20, fe ///
> z robust ///
> lcs(L1lres+(c.etot#c.L1lres)) title(`"lcs(L1lres+(c.etot#c.L1lres))"')
```

Impulse Response Function

	IRF	Std.Err.	IRF LOW	IRF UP
0	0.00947	0.01767	-0.02559	0.04454
1	0.02156	0.01728	-0.01273	0.05585
2	0.02653	0.01714	-0.00748	0.06053
3	0.02995	0.01669	-0.00316	0.06306
4	0.03665	0.01679	0.00333	0.06996
5	0.04424	0.01728	0.00995	0.07852

```
.
. graph rename Graph ivfi_lcs2, replace
(note: graph ivfi_lcs2 not found)

.
. graph combine ivfi_lcs ivfi_lcs1 ivfi_lcs2, row(1) ///
> title(`"Panel LP for the Buffer Effect on the RER"')

.
. graph export "PANEL_LP.pdf", as(pdf) name("Graph") replace
file PANEL_LP.pdf saved as PDF format
```

```
.
.
. **# Fig. B.3. Panel LP for the buffer effect on the RER.
```

```
.
. reg d.lres lreer cny* if count_lgovexp==20, robust
note: cny33 omitted because of collinearity.
note: cny39 omitted because of collinearity.
note: cny47 omitted because of collinearity.
note: cny56 omitted because of collinearity.
note: cny58 omitted because of collinearity.
note: cny64 omitted because of collinearity.
note: cny72 omitted because of collinearity.
note: cny102 omitted because of collinearity.
note: cny103 omitted because of collinearity.
note: cny108 omitted because of collinearity.
note: cny110 omitted because of collinearity.
```

Linear regression	Number of obs	=	1,900
	F(100, 1799)	=	0.82
	Prob > F	=	0.8956
	R-squared	=	0.0346
	Root MSE	=	.23539

D.lres	Robust					
	Coefficient	std. err.	t	P> t	[95% conf. interval]	
lreer	-.1984237	.0523173	-3.79	0.000	-.3010328	-.0958146
cny1	.0341988	.0743827	0.46	0.646	-.1116868	.1800844
cny2	.0227806	.0789579	0.29	0.773	-.1320783	.1776396
cny3	.0862455	.1087249	0.79	0.428	-.1269949	.299486
cny4	-.0033427	.089908	-0.04	0.970	-.1796778	.1729925
cny5	.0199762	.0876074	0.23	0.820	-.1518468	.1917993
cny6	-.0015957	.0871946	-0.02	0.985	-.172609	.1694176
cny7	-.016635	.0781487	-0.21	0.831	-.1699068	.1366367
cny8	.0390786	.0823422	0.47	0.635	-.1224178	.200575
cny9	.135783	.0844652	1.61	0.108	-.0298772	.3014431
cny10	.017839	.1112825	0.16	0.873	-.2004176	.2360956
cny11	.0040791	.0769911	0.05	0.958	-.1469222	.1550804
cny12	.0576799	.0911168	0.63	0.527	-.121026	.2363859
cny13	-.02821	.0771414	-0.37	0.715	-.1795062	.1230863
cny14	.0686128	.0794467	0.86	0.388	-.0872048	.2244304
cny15	.0571803	.0771356	0.74	0.459	-.0941046	.2084651
cny16	.0661933	.1061918	0.62	0.533	-.142079	.2744655
cny17	.1321881	.0776482	1.70	0.089	-.020102	.2844783
cny18	.0050976	.0730116	0.07	0.944	-.1380989	.148294
cny19	.0050004	.0773122	0.06	0.948	-.1466307	.1566316
cny20	.0614182	.0756794	0.81	0.417	-.0870105	.2098469
cny21	.0451921	.073488	0.61	0.539	-.0989388	.1893229
cny22	.0575161	.1249323	0.46	0.645	-.1875117	.3025438
cny23	.062885	.0765986	0.82	0.412	-.0873466	.2131166
cny24	.0470152	.0751264	0.63	0.532	-.100329	.1943593
cny25	-.1041822	.1328056	-0.78	0.433	-.3646516	.1562871
cny26	.0807693	.082041	0.98	0.325	-.0801362	.2416749
cny27	.0427145	.0834405	0.51	0.609	-.1209359	.206365
cny28	.0585814	.0928165	0.63	0.528	-.1234581	.2406209
cny29	.0649084	.114994	0.56	0.573	-.1606275	.2904443
cny30	.0360841	.0993997	0.36	0.717	-.1588669	.231035
cny31	.0166079	.0772093	0.22	0.830	-.1348213	.1680372
cny32	-.0090374	.1393094	-0.06	0.948	-.2822626	.2641878
cny33	0	(omitted)				
cny34	-.0041652	.0784712	-0.05	0.958	-.1580694	.149739
cny35	.0173828	.0758252	0.23	0.819	-.1313319	.1660974
cny36	.0143993	.0999137	0.14	0.885	-.1815598	.2103583
cny37	.089977	.0809338	1.11	0.266	-.0687571	.2487112
cny38	-.0094304	.0718328	-0.13	0.896	-.1503148	.131454
cny39	0	(omitted)				
cny40	-.0053361	.0954843	-0.06	0.955	-.1926079	.1819357
cny41	.0720298	.0761838	0.95	0.345	-.0773883	.2214479
cny42	.0476009	.142511	0.33	0.738	-.2319036	.3271055
cny43	.0673794	.0797361	0.85	0.398	-.0890056	.2237645
cny44	.0104455	.0795531	0.13	0.896	-.1455806	.1664716
cny45	.0685402	.0767143	0.89	0.372	-.0819182	.2189987
cny46	-.0002072	.074157	-0.00	0.998	-.1456501	.1452358
cny47	0	(omitted)				
cny48	-.0463363	.0842342	-0.55	0.582	-.2115435	.1188709
cny49	.0856295	.0779853	1.10	0.272	-.0673218	.2385809
cny50	.027117	.0722172	0.38	0.707	-.1145214	.1687554
cny51	.0465404	.0830997	0.56	0.576	-.1164417	.2095224
cny52	.0902747	.074916	1.21	0.228	-.0566568	.2372062
cny53	-.0140174	.0996181	-0.14	0.888	-.2093967	.1813619
cny54	.0415138	.0750329	0.55	0.580	-.1056469	.1886746
cny55	.0064591	.0728487	0.09	0.929	-.1364179	.149336
cny56	0	(omitted)				
cny57	.0414076	.0772789	0.54	0.592	-.1101582	.1929735
cny58	0	(omitted)				
cny59	.0255897	.0985174	0.26	0.795	-.1676307	.2188102
cny60	.1090512	.0822801	1.33	0.185	-.0523234	.2704258
cny61	.0031023	.111926	0.03	0.978	-.2164163	.2226208
cny62	.0379413	.0762323	0.50	0.619	-.1115719	.1874545
cny63	.0687573	.0799872	0.86	0.390	-.0881203	.2256349
cny64	0	(omitted)				
cny65	.0123722	.0757507	0.16	0.870	-.1361964	.1609407
cny66	.114503	.1035194	1.11	0.269	-.0885279	.3175338
cny67	.1043734	.0803612	1.30	0.194	-.0532377	.2619844
cny68	.0482473	.0717803	0.67	0.502	-.0925341	.1890288

cny69	.0666589	.0772036	0.86	0.388	-.0847592	.2180771
cny70	.0855419	.1159292	0.74	0.461	-.141828	.3129118
cny71	.0325032	.0770427	0.42	0.673	-.1185995	.1836058
cny72	0	(omitted)				
cny73	.0690807	.0929086	0.74	0.457	-.1131393	.2513008
cny74	.0593653	.0770629	0.77	0.441	-.0917768	.2105074
cny75	.0056404	.0744823	0.08	0.940	-.1404405	.1517212
cny76	.0128902	.0822201	0.16	0.875	-.1483668	.1741472
cny77	.0830763	.075561	1.10	0.272	-.0651203	.231273
cny78	.0189712	.0942915	0.20	0.841	-.1659611	.2039035
cny79	.0380269	.0752846	0.51	0.614	-.1096275	.1856814
cny80	.0287787	.0753192	0.38	0.702	-.1189437	.176501
cny81	.0666214	.0842357	0.79	0.429	-.0985887	.2318315
cny82	.0351549	.1114616	0.32	0.752	-.1834529	.2537627
cny83	.0721059	.1090006	0.66	0.508	-.1416752	.285887
cny84	.0932954	.0787476	1.18	0.236	-.0611511	.2477418
cny85	.0778623	.0752379	1.03	0.301	-.0697006	.2254252
cny86	.0509745	.0753491	0.68	0.499	-.0968065	.1987555
cny87	.0301432	.0762418	0.40	0.693	-.1193887	.179675
cny88	-.0371987	.0964578	-0.39	0.700	-.2263798	.1519825
cny89	.0173197	.0763786	0.23	0.821	-.1324803	.1671198
cny90	.0559595	.0803776	0.70	0.486	-.1016839	.2136028
cny91	.0479428	.0916891	0.52	0.601	-.1318856	.2277711
cny92	.1352662	.1057918	1.28	0.201	-.0722215	.3427539
cny93	.0688668	.0873043	0.79	0.430	-.1023617	.2400953
cny94	.0530905	.0751748	0.71	0.480	-.0943485	.2005295
cny95	-.0126347	.1506055	-0.08	0.933	-.3080148	.2827454
cny96	-.089377	.1219078	-0.73	0.464	-.3284726	.1497187
cny97	.0601625	.0756193	0.80	0.426	-.0881484	.2084734
cny98	.0125421	.0851162	0.15	0.883	-.1543949	.1794791
cny99	.0146498	.0855652	0.17	0.864	-.1531679	.1824675
cny100	.0282557	.0780037	0.36	0.717	-.1247316	.181243
cny101	.0524269	.0737902	0.71	0.477	-.0922966	.1971503
cny102	0	(omitted)				
cny103	0	(omitted)				
cny104	-.0283249	.0762218	-0.37	0.710	-.1778175	.1211677
cny105	.0244942	.0986359	0.25	0.804	-.1689586	.2179471
cny106	.0214347	.0715442	0.30	0.765	-.1188838	.1617531
cny107	.0315508	.072616	0.43	0.664	-.1108697	.1739714
cny108	0	(omitted)				
cny109	.1094414	.0917252	1.19	0.233	-.0704577	.2893406
cny110	0	(omitted)				
_cons	.8988612	.2347035	3.83	0.000	.4385412	1.359181

```

. capture drop residuals_lres

. predict residuals_lres, residuals
(110 missing values generated)

. histogram residuals_lres, kdensity
(bin=33, start=-2.3017368, width=.115731)

.

. reg d.etot lrer cny* if count_lgovexp==20, robust
note: cny33 omitted because of collinearity.
note: cny39 omitted because of collinearity.
note: cny47 omitted because of collinearity.
note: cny56 omitted because of collinearity.
note: cny58 omitted because of collinearity.
note: cny64 omitted because of collinearity.
note: cny72 omitted because of collinearity.
note: cny102 omitted because of collinearity.
note: cny103 omitted because of collinearity.
note: cny108 omitted because of collinearity.
note: cny110 omitted because of collinearity.

```

Linear regression	Number of obs	=	1,900
	F(100, 1799)	=	0.84
	Prob > F	=	0.8768
	R-squared	=	0.0180
	Root MSE	=	.52975

D.etot	Robust					
	Coefficient	std. err.	t	P> t	[95% conf. interval]	
lreer	-.024562	.1030966	-0.24	0.812	-.2267636	.1776395
cny1	-.0175457	.1488357	-0.12	0.906	-.3094548	.2743634
cny2	-.3244918	.2138755	-1.52	0.129	-.7439623	.0949787
cny3	-.1131222	.2521648	-0.45	0.654	-.6076888	.3814444
cny4	-.1405474	.2093883	-0.67	0.502	-.5512173	.2701224
cny5	-.0727435	.1827699	-0.40	0.691	-.4312072	.2857202
cny6	-.1076451	.1328252	-0.81	0.418	-.3681531	.1528629
cny7	-.1310072	.1204268	-1.09	0.277	-.3671982	.1051839
cny8	-.1852336	.2575721	-0.72	0.472	-.6904054	.3199383
cny9	-.1402819	.1336297	-1.05	0.294	-.4023676	.1218038
cny10	-.1442538	.1416243	-1.02	0.309	-.4220192	.1335116
cny11	-.1388043	.1202121	-1.15	0.248	-.3745744	.0969658
cny12	-.0839307	.1732419	-0.48	0.628	-.4237073	.2558458
cny13	-.2814113	.2003443	-1.40	0.160	-.6743433	.1115206
cny14	-.1033687	.1331881	-0.78	0.438	-.3645884	.157851
cny15	-.0834675	.1317345	-0.63	0.526	-.3418362	.1749011
cny16	-.2038081	.2194337	-0.93	0.353	-.6341798	.2265636
cny17	-.0833038	.1518125	-0.55	0.583	-.3810512	.2144435
cny18	-.1748513	.1205391	-1.45	0.147	-.4112625	.06156
cny19	-.1070721	.162901	-0.66	0.511	-.4265671	.2124229
cny20	-.1120135	.1293567	-0.87	0.387	-.3657187	.1416916
cny21	-.1829621	.13233	-1.38	0.167	-.4424988	.0765746
cny22	-.020731	.2269689	-0.09	0.927	-.4658815	.4244194
cny23	-.1195037	.1504337	-0.79	0.427	-.4145467	.1755394
cny24	-.0920863	.1302413	-0.71	0.480	-.3475264	.1633538
cny25	-.0561859	.2142926	-0.26	0.793	-.4764745	.3641028
cny26	-.0912514	.1213422	-0.75	0.452	-.3292378	.146735
cny27	-.1435412	.121055	-1.19	0.236	-.3809645	.0938821
cny28	-.1378347	.1460147	-0.94	0.345	-.4242109	.1485415
cny29	-.0883884	.1387108	-0.64	0.524	-.3604396	.1836628
cny30	-.1009202	.1596959	-0.63	0.527	-.4141292	.2122888
cny31	-.1660813	.1255295	-1.32	0.186	-.4122803	.0801177
cny32	-.0896651	.1303799	-0.69	0.492	-.345377	.1660468
cny33	0	(omitted)				
cny34	-.1964339	.1220074	-1.61	0.108	-.435725	.0428573
cny35	-.1669777	.1195835	-1.40	0.163	-.4015148	.0675595
cny36	-.0912859	.5104187	-0.18	0.858	-.1092362	.90979
cny37	-.142738	.1632968	-0.87	0.382	-.4630093	.1775332
cny38	-.1371655	.1198027	-1.14	0.252	-.3721327	.0978016
cny39	0	(omitted)				
cny40	-.0287201	.1418864	-0.20	0.840	-.3069997	.2495594
cny41	-.0705554	.1362012	-0.52	0.605	-.3376846	.1965737
cny42	-.0692735	.2771508	-0.25	0.803	-.6128448	.4742977
cny43	-.1533719	.1347672	-1.14	0.255	-.4176887	.1109448
cny44	-.1067257	.1196842	-0.89	0.373	-.3414604	.128009
cny45	-.1583968	.1305532	-1.21	0.225	-.4144487	.0976551
cny46	-.1807513	.1418768	-1.27	0.203	-.4590119	.0975092
cny47	0	(omitted)				
cny48	-.111912	.1446084	-0.77	0.439	-.3955302	.1717061
cny49	-.1586205	.1309936	-1.21	0.226	-.4155362	.0982951
cny50	-.1159376	.1216215	-0.95	0.341	-.3544718	.1225967
cny51	-.2042954	.1549911	-1.32	0.188	-.5082769	.099686
cny52	-.156884	.1303282	-1.20	0.229	-.4124944	.0987265
cny53	-.1455907	.174843	-0.83	0.405	-.4885075	.197326
cny54	-.2001125	.1388768	-1.44	0.150	-.4724894	.0722644
cny55	-.1357049	.1257633	-1.08	0.281	-.3823623	.1109525
cny56	0	(omitted)				
cny57	-.2594356	.1950314	-1.33	0.184	-.6419476	.1230763
cny58	0	(omitted)				
cny59	-.042786	.1340468	-0.32	0.750	-.3056898	.2201178
cny60	-.0129939	.166064	0.08	0.938	-.3127047	.3386925
cny61	-.0649284	.1284671	-0.51	0.613	-.3168887	.187032
cny62	-.18687	.1275612	-1.46	0.143	-.4370536	.0633137
cny63	-.1851079	.1733655	-1.07	0.286	-.5251267	.1549109
cny64	0	(omitted)				
cny65	-.1305262	.1240133	-1.05	0.293	-.3737515	.112699
cny66	-.0771165	.3119818	-0.25	0.805	-.6890012	.5347682
cny67	-.2665588	.135747	-1.96	0.050	-.5327971	-.0003205
cny68	-.1116112	.1188467	-0.94	0.348	-.3447033	.121481

cny69	- .2000008	.1512631	-1.32	0.186	- .4966707	.0966691
cny70	- .0147741	.2002795	-0.07	0.941	- .407579	.3780309
cny71	- .1459391	.1337239	-1.09	0.275	- .4082097	.1163314
cny72	0	(omitted)				
cny73	- .1225101	.166317	-0.74	0.461	- .4487048	.2036847
cny74	- .4177943	.1591637	-2.62	0.009	- .7299595	- .1056291
cny75	- .1325948	.1190882	-1.11	0.266	- .3661606	.100971
cny76	- .1368532	.1253542	-1.09	0.275	- .3827084	.1090019
cny77	- .0461212	.1403555	-0.33	0.742	- .3213982	.2291557
cny78	- .2413552	.1944986	-1.24	0.215	- .6228221	.1401117
cny79	- .1110474	.1358648	-0.82	0.414	- .3775169	.1554221
cny80	- .2381293	.1395741	-1.71	0.088	- .5118736	.035615
cny81	- .1741819	.200235	-0.87	0.384	- .5668994	.2185356
cny82	- .2263588	.1372407	-1.65	0.099	- .4955267	.0428091
cny83	.0011559	.2844246	0.00	0.997	- .5566814	.5589932
cny84	- .1822805	.1798839	-1.01	0.311	- .5350838	.1705228
cny85	- .1013558	.1501193	-0.68	0.500	- .3957823	.1930707
cny86	- .1821234	.1422053	-1.28	0.200	- .4610282	.0967815
cny87	- .0553239	.1218979	-0.45	0.650	- .2944002	.1837523
cny88	- .08785	.1252697	-0.70	0.483	- .3335393	.1578393
cny89	- .1335673	.1312146	-1.02	0.309	- .3909164	.1237817
cny90	- .1888771	.1348904	-1.40	0.162	- .4534354	.0756813
cny91	- .0257791	.1685556	-0.15	0.878	- .3563645	.3048062
cny92	- .2270831	.2093272	-1.08	0.278	- .6376331	.1834669
cny93	- .0218998	.4531244	-0.05	0.961	- .9106053	.8668057
cny94	- .1221603	.1306323	-0.94	0.350	- .3783672	.1340466
cny95	- .0969333	.1236108	-0.78	0.433	- .3393692	.1455026
cny96	- .1020105	.1214656	-0.84	0.401	- .340239	.136218
cny97	- .1410451	.1339373	-1.05	0.292	- .4037341	.1216439
cny98	- .0975616	.1244571	-0.78	0.433	- .3416572	.146534
cny99	- .1742534	.1436441	-1.21	0.225	- .4559803	.1074734
cny100	- .1669274	.1196129	-1.40	0.163	- .4015223	.0676676
cny101	- .1229359	.1378957	-0.89	0.373	- .3933883	.1475166
cny102	0	(omitted)				
cny103	0	(omitted)				
cny104	- .1333311	.1344237	-0.99	0.321	- .3969742	.130312
cny105	- .1651606	.1396349	-1.18	0.237	- .4390243	.108703
cny106	- .1796649	.1304888	-1.38	0.169	- .4355904	.0762606
cny107	- .141147	.1232655	-1.15	0.252	- .3829056	.1006116
cny108	0	(omitted)				
cny109	- .0961714	.1372304	-0.70	0.484	- .3653191	.1729763
cny110	0	(omitted)				
_cons	.2507098	.464836	0.54	0.590	- .6609653	1.162385

```

. capture drop residuals_etot

. predict residuals_etot, residuals
(110 missing values generated)

. histogram residuals_etot, kdensity
(bin=33, start=-4.5991144, width=.28917359)

.

. locproj lreer (c.residuals_etot#c.residuals_lres) ///
> if count_lgovexp==20, ///
> c(l(1).lgdppk_m100 ///
> l(1).lgovexp l(1).irr) ///
> z h(4) yl(1) sl(1) fe cluster(cn) conf(90 95) ///
> title(`Full sample') ///
> save irfname(full)

```

Impulse Response Function

	IRF	Std.Err.	IRF LO~90	IRF UP 90	IRF LO~95	IRF UP 95
0	-0.02047	0.01183	-0.04011	-0.00083	-0.04394	0.00300
1	-0.03693	0.01201	-0.05687	-0.01699	-0.06076	-0.01310
2	-0.03618	0.01473	-0.06063	-0.01173	-0.06540	-0.00696
3	-0.04466	0.01651	-0.07207	-0.01724	-0.07742	-0.01190
4	-0.04277	0.01717	-0.07128	-0.01426	-0.07684	-0.00870

```
.
. graph rename Graph full, replace
(note: graph full not found)

.
. locproj lreer (c.residuals_etot#c.residuals_lres) if l2.fi<0.48 ///
> & count_lgovexp==20, ///
> c(l(1).lgdppk_m100 ///
> l(1).lgovexp l(1).irr) ///
> z h(4) yl(1) sl(1) fe cluster(cn) conf(90 95) ///
> title(`"Below the threshold for FI"') ///
> save irfname(below)
```

Impulse Response Function

	IRF	Std.Err.	IRF LO~90	IRF UP 90	IRF LO~95	IRF UP 95
0	-0.02239	0.01191	-0.04223	-0.00254	-0.04613	0.00135
1	-0.03703	0.01310	-0.05887	-0.01519	-0.06316	-0.01090
2	-0.03720	0.01471	-0.06173	-0.01268	-0.06655	-0.00786
3	-0.04839	0.01459	-0.07272	-0.02407	-0.07750	-0.01929
4	-0.04943	0.01494	-0.07433	-0.02452	-0.07923	-0.01962

```
.
. graph rename Graph belowfi, replace
(note: graph belowfi not found)
```

```
.
. locproj lreer (c.residuals_etot#c.residuals_lres) if l2.fi>=0.48 ///
> & count_lgovexp==20, ///
> c(l(1).lgdppk_m100 ///
> l(1).lgovexp l(1).irr) ///
> z h(4) yl(1) sl(1) fe cluster(cn) conf(90 95) ///
> title(`"Above the threshold for FI"') ///
> save irfname(above)
```

Impulse Response Function

	IRF	Std.Err.	IRF LO~90	IRF UP 90	IRF LO~95	IRF UP 95
0	-0.04007	0.02697	-0.08519	0.00505	-0.09412	0.01397
1	-0.07113	0.03397	-0.12799	-0.01428	-0.13924	-0.00302
2	-0.06342	0.03234	-0.11754	-0.00930	-0.12825	0.00141
3	-0.03331	0.03725	-0.09572	0.02910	-0.10810	0.04148
4	0.00454	0.03093	-0.04732	0.05640	-0.05762	0.06670

```
.
. graph rename Graph abovefi, replace
(note: graph abovefi not found)
```

```
.
. graph combine full belowfi abovefi, row(1) ///
> title(`"Panel LP for the Buffer Effect on the RER"') ///
> subtitle(`"Term-of-trade shock - (shock on c.residuals_etot#c.residuals_lres)"')
```

```
.
. graph export "PANEL_LP_RES.pdf", as(pdf) name("Graph") replace
file PANEL_LP_RES.pdf saved as PDF format
```

```
.
. **# Table B.5. Factor augmented panel regressions.
```

```
.
. *ssc install xtcdcf
.
. **CS mean of lreer**
. areg lreer lgdppk_m100 lgovexp mean_lreer c.etot##c.L1lres ///
> if count_lgovexp==20, ///
> absorb(cn) vce(bootstrap, reps(200))
(running areg on estimation sample)

Bootstrap replications (200): .....10.....20.....30.....40.....50.....60.....70.....
> ..160.....170.....180.....190.....200 done
```

Linear regression, absorbing indicators
Absorbed variable: cn

	Number of obs	= 1,900
No. of categories	= 100	
Replications	= 200	
Wald chi2(6)	= 662.73	
Prob > chi2	= 0.0000	
R-squared	= 0.5866	
Adj R-squared	= 0.5624	
Root MSE	= 0.1058	

lreer	Observed coefficient	Bootstrap std. err.	z	P> z	Normal-based [95% conf. interval]	
lgdppk_m100	.6946156	.0598046	11.61	0.000	.5774007	.8118304
lgovexp	.0722263	.0252352	2.86	0.004	.0227662	.1216863
mean_lreer	.8671323	.0421462	20.57	0.000	.7845273	.9497372
etot	.0093862	.0112083	0.84	0.402	-.0125816	.0313541
L1lres	.0045605	.0079234	0.58	0.565	-.0109692	.0200902
c.etot##c.L1lres	-.0103041	.0039563	-2.60	0.009	-.0180583	-.00255
_cons	-2.820245	.3329808	-8.47	0.000	-3.472875	-2.167614

```
.
capture drop lreer_resid

predict lreer_resid if count_lgovexp==20, residuals
(300 missing values generated)

xtcdf lreer_resid
```

xtcd test on variables lreer_resid
Panelvar: cn
Timevar: year

Variable	CD-test	p-value	average joint T	mean p	mean abs(p)
lreer_resid	-.851	0.395	19.00	0.00	0.34

1045 combinations of panel units ign

Notes: Under the null hypothesis of cross-section independence, CD ~ N(0,1)
P-values close to zero indicate data are correlated across panel groups.

```
.
. **Year effects**
. areg lreer lgdppk_m100 lgovexp yr2006-yr2020 c.etot##c.L1lres ///
> if count_lgovexp==20, ///
> absorb(cn) vce(bootstrap, reps(200))
(running areg on estimation sample)
```

```
Bootstrap replications (200): .....10.....20.....30.....40.....50.....60.....70.....
> ..160.....170.....180.....190.....200 done
```

Linear regression, absorbing indicators
Absorbed variable: cn

	Number of obs	= 1,900
No. of categories	= 100	
Replications	= 200	
Wald chi2(20)	= 776.43	
Prob > chi2	= 0.0000	
R-squared	= 0.5849	
Adj R-squared	= 0.5572	
Root MSE	= 0.1065	

lreer	Observed coefficient	Bootstrap std. err.	z	P> z	Normal-based [95% conf. interval]	
lgdppk_m100	.6956798	.0628333	11.07	0.000	.5725288	.8188308
lgovexp	.0758954	.028472	2.67	0.008	.0200912	.1316996
yr2006	.0436864	.0118555	3.68	0.000	.0204501	.0669227
yr2007	.0704693	.0107696	6.54	0.000	.0493612	.0915774
yr2008	.1098872	.011215	9.80	0.000	.0879061	.1318682
yr2009	.1021317	.010136	10.08	0.000	.0822656	.1219978
yr2010	.1249166	.0090068	13.87	0.000	.1072637	.1425695
yr2011	.1309295	.0111911	11.70	0.000	.1089953	.1528636
yr2012	.1416081	.0092591	15.29	0.000	.1234606	.1597555
yr2013	.1536994	.0100926	15.23	0.000	.1339182	.1734806
yr2014	.1461501	.0100262	14.58	0.000	.1264991	.1658011
yr2015	.1453404	.0116728	12.45	0.000	.1224622	.1682186
yr2016	.1307757	.0126281	10.36	0.000	.1060251	.1555262
yr2017	.1417163	.0129476	10.95	0.000	.1163394	.1670931
yr2018	.133586	.0128591	10.39	0.000	.1083827	.1587893
yr2019	.134054	.0138629	9.67	0.000	.1068832	.1612248
yr2020	.1175133	.0207125	5.67	0.000	.0769175	.158109
etot	.0105166	.011819	0.89	0.374	-.0126482	.0336813
L1lres	.0037734	.0080279	0.47	0.638	-.011961	.0195079
c.etot#c.L1lres	-.0106794	.0040947	-2.61	0.009	-.0187049	-.002654
_cons	1.09164	.3328256	3.28	0.001	.4393142	1.743966

```

. capture drop lreer_resid

. predict lreer_resid if count_lgovexp==20, residuals
(300 missing values generated)

. xtcd lreer_resid

```

xtcd test on variables lreer_resid

Panelvar: cn
Timevar: year

Variable	CD-test	p-value	average joint T	mean p	mean abs(p)
lreer_resid	.538	0.590	19.00	0.00	0.34

1045 combinations of panel units ign

Notes: Under the null hypothesis of cross-section independence, CD ~ N(0,1)
P-values close to zero indicate data are correlated across panel groups.

```

. **Heterogenous factor loadings**
.
. capture drop resid

. regife lreer lgdppk_m100 lgovexp etot L1lres etot_L1lres ///
> if year!=2020, a(cn year) ife(cn year, 1) residuals(resid)

```

REGIFE
Number of obs = 1919
Panel structure: cn, year F(5, 1663) = 38.09
Factor dimension: 1 Prob > F = 0.0000
Converged: true Root MSE = 0.0771
Iterations = 108

lreer	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lgdppk_m100	.9216009	.0824482	11.18	0.000	.7598876 1.083314
lgovexp	.0955865	.0183999	5.19	0.000	.059497 .131676
etot	.0207498	.0097062	2.14	0.033	.0017121 .0397875
L1lres	-.0009775	.0069156	-0.14	0.888	-.0145417 .0125866
etot_L1lres	-.0140508	.0034678	-4.05	0.000	-.0208525 -.0072492
_cons	.1176892	.3870674	0.30	0.761	-.6415014 .8768799

```
. xtcd resid
```

```
xtcd test on variables resid
Panelvar: cn
Timevar: year
```

Variable	CD-test	p-value	average joint T	mean p	mean abs(p)
resid	- .835	0.404	17.54	0.00	0.37

217 combinations of panel units ign

Notes: Under the null hypothesis of cross-section independence, CD ~ N(0,1)
P-values close to zero indicate data are correlated across panel groups.

```
. ***# Table B.6. Before and after the Global Financial Crisis.
```

```
. ***# *** Controls for GFC ***
```

```
. areg lreer lgdppk_m100 lgovexp c.etot##c.L1lres ///
> if count_lgovexp==20 & year<2009, ///
> absorb(cn) vce(bootstrap, reps(200))
(running areg on estimation sample)
```

Bootstrap replications (200):10.....20.....30.....40.....50.....60.....70.....
> ..160.....170.....180.....190.....200 done

Linear regression, absorbing indicators
Absorbed variable: cn

	Number of obs	=	700
No. of categories	=	100	
Replications	=	200	
Wald chi2(5)	=	74.18	
Prob > chi2	=	0.0000	
R-squared	=	0.4555	
Adj R-squared	=	0.3603	
Root MSE	=	0.0884	

lreer	Observed coefficient	Bootstrap std. err.	z	P> z	Normal-based	
					[95% conf. interval]	
lgdppk_m100	.9524125	.1429967	6.66	0.000	.6721441	1.232681
lgovexp	.0245443	.040773	0.60	0.547	-.0553693	.104458
etot	.0074167	.0285987	0.26	0.795	-.0486358	.0634692
L1lres	.0068451	.0165675	0.41	0.679	-.0256267	.0393169
c.etot##c.L1lres	-.0162402	.0105331	-1.54	0.123	-.0368846	.0044043
_cons	.059323	.6735933	0.09	0.930	-1.260896	1.379542

```
. estimate store gfc_before
```

```
. areg lreer lgdppk_m100 lgovexp c.etot##c.L1lres ///
> if count_lgovexp==20 & year>=2009, ///
> absorb(cn) vce(bootstrap, reps(200))
(running areg on estimation sample)
```

Bootstrap replications (200):10.....20.....30.....40.....50.....60.....70.....
> ..160.....170.....180.....190.....200 done

Linear regression, absorbing indicators
Absorbed variable: cn

	Number of obs	=	1,200
No. of categories	=	100	
Replications	=	200	
Wald chi2(5)	=	15.96	
Prob > chi2	=	0.0069	
R-squared	=	0.7431	
Adj R-squared	=	0.7187	
Root MSE	=	0.0909	

lreer	Observed coefficient	Bootstrap std. err.	z	P> z	Normal-based [95% conf. interval]	
lgdppk_m100	.5712422	.1657089	3.45	0.001	.2464587	.8960258
lgovexp	.0604668	.042766	1.41	0.157	-.0233531	.1442867
etot	.0288219	.0137157	2.10	0.036	.0019396	.0557042
L1lres	.0052043	.0107214	0.49	0.627	-.0158094	.0262179
c.etot#c.L1lres	-.0153383	.0052066	-2.95	0.003	-.025543	-.0051336
_cons	1.84038	.8458842	2.18	0.030	.1824775	3.498283

```
. estimate store gfc_after

.
. xthreg lreer lgdppk_m100 lgovexp if count_lgovexp==20 & year>=2009, ///
> rx(etot_L1lres) qx(12.fi) thnum(1) grid(600) bs(100) trim(0.10)
Estimating the threshold parameters: 1st ..... Done
Bootstrap for single threshold
..... + 50
..... + 100
```

Threshold estimator (level = 95):

model	Threshold	Lower	Upper
Th-1	0.4807	0.4798	0.4821

Threshold effect test (bootstrap = 100):

Threshold	RSS	MSE	Fstat	Prob	Crit10	Crit5	Crit1
Single	8.7648	0.0074	43.89	0.0300	27.0352	29.7144	46.4349

```
Fixed-effects (within) regression
Number of obs      =      1,200
Group variable: cn
Number of groups   =        100

R-squared:
Within = 0.0903
Between = 0.1332
Overall = 0.0881

Obs per group:
min =           12
avg =          12.0
max =           12

F(4, 1096)      =     27.21
Prob > F        = 0.0000
corr(u_i, Xb) = -0.9369
```

lreer	Coefficient	Std. err.	t	P> t	[95% conf. interval]
lgdppk_m100	.6240565	.0777718	8.02	0.000	.4714581 .7766549
lgovexp	.0577546	.0271711	2.13	0.034	.0044414 .1110677
_cat#c.etot_L1lres					
0	-.0083133	.0016356	-5.08	0.000	-.0115227 -.005104
1	.009757	.0029271	3.33	0.001	.0040136 .0155004
_cons	1.61488	.3674432	4.39	0.000	.8939085 2.335852
sigma_u	.40099307				
sigma_e	.08942676				
rho	.95262147	(fraction of variance due to u_i)			

F test that all u_i=0: F(99, 1096) = 27.17 Prob > F = 0.0000

```

. estimate store gfc_after_fi

. local switches "dec(4) excel se e(rmse)"

. outreg2 [gfc*] using "gfc.xml", replace `switches'
gfc.xml
dir : seeout

. **# Table B.7. Baseline regressions for different country groups.

. *** Table B4 - Aizenman, Riera-Crichton 2006 ***

. cap drop manufactured

. generate manufactured = 0

. replace manufactured = 1 if cn == 55 | cn == 34 | cn == 38 | ///
>                               cn == 100 | cn == 11 | cn == 52 | ///
>                               cn == 50 | cn == 35
(160 real changes made)

. *** Eurozone ***
. cap drop eurozone

. generate eurozone = 0

. replace eurozone = 1 if cn == 7 | cn == 11 | cn == 25 | ///
>                               cn == 32 | cn == 34 | cn == 35 | ///
>                               cn == 38 | cn == 40 | cn == 48 | ///
>                               cn == 50 | cn == 59 | cn == 61 | ///
>                               cn == 62 | cn == 75 | cn == 88 | ///
>                               cn == 95 | cn == 96 | cn == 98
(360 real changes made)

. // Malta is not in the sample
. **# *** OECD (at least 20 year of membership) ***
. generate oecd = 0

. replace oecd = 1 if cn == 6 | cn == 7 | cn == 11 | ///
>                               cn == 18 | cn == 26 | cn == 27 | ///
>                               cn == 34 | cn == 35 | cn == 38 | ///
>                               cn == 40 | cn == 44 | cn == 48 | ///
>                               cn == 50 | cn == 52 | cn == 55 | ///
>                               cn == 62 | cn == 68 | cn == 98 | ///
>                               cn == 75 | cn == 76 | cn == 80 | ///
>                               cn == 87 | cn == 87 | cn == 88 | ///
>                               cn == 95 | cn == 98 | cn == 100 | ///
>                               cn == 104 | cn == 106 | cn == 107
(560 real changes made)

```

```
.
. **# *** Natural resources ***
.
. generate natres = 0

.
. replace natres = 1 if cn == 6 | cn == 18 | cn == 19 | ///
>           cn == 56 | cn == 68 | cn == 78 | ///
>           cn == 80 | cn == 90 | cn == 92 | ///
>           cn == 97
(200 real changes made)

.
. **# *** Commodity exporters ***
.
. generate commodity = 0

.
. replace commodity = 1 if cn == 2 | cn == 3 | cn == 4 | ///
>           cn == 8 | cn == 14 | cn == 19 | ///
>           cn == 21 | cn == 23 | cn == 29 | ///
>           cn == 41 | cn == 46 | cn == 53 | ///
>           cn == 53 | cn == 65 | cn == 81 | ///
>           cn == 84 | cn == 85 | cn == 90 | ///
>           cn == 102 | cn == 108
(380 real changes made)

.
```

```
. summarize
```

Variable	Obs	Mean	Std. dev.	Min	Max
cn	2,200	55.5	31.76017	1	110
year	2,200	2010.5	5.767592	2001	2020
lreer	2,200	4.632866	.1832542	2.84686	5.567302
lto	2,200	3.650269	.4817038	2.377674	5.392096
ltot	2,200	-.014806	.371138	-2.11197	2.513272
lres	2,200	2.522981	.8929707	.0925683	4.697033
lgdppk	2,200	9.459362	1.119343	6.532552	11.70063
lgdppk_us	20	10.93104	.0628528	10.82231	11.04501
lgdppk_usd	2,200	10.93104	.0612753	10.82231	11.04501
gdppk	2,200	21159.19	19650.25	687.1494	120647.8
mean_lgdppk	2,200	9.459363	.1405699	9.189973	9.653243
countryname	0				
cntry	0				
countrycode	0				
region	0				
regionname	0				
reer	2,200	104.5075	19.21356	17.23358	261.7271
exppercents	2,200	41.07986	27.72134	4.685804	228.9938
imppercents	2,200	43.94904	23.80346	9.482804	208.3329
expvalunit	2,200	371.0527	563.6597	29.07626	14708.27
impvalunit	2,200	334.1177	232.3083	35.73984	1679.372
res	2,200	6.61e+10	2.72e+11	1.77e+07	3.86e+12
gdp	2,200	5.59e+11	1.85e+12	4.87e+08	2.14e+13
govexp	2,127	15.75729	5.054189	.9517466	35.35077
cpi	2,154	106.0156	43.87587	7.347208	536.5427
inf	2,149	5.63844	10.83412	-10.06749	359.9366
ner	1,896	802.6203	2617.351	.139	23208.37
pop	2,200	5.68e+07	1.76e+08	441525	1.41e+09
broadmoney	1,759	60.12087	41.23677	2.857408	280.1829
irr	2,082	6.786263	4.123157	1	15
p_equity_net	2,014	-.195533	2.890206	-37.2125	15.30837
fdi_net	2,014	-.2183382	.8891999	-5.363108	13.95155
debt_net	2,014	-.0136181	2.374589	-2.554898	28.33707
f_deriv_net	2,014	.0027711	.0310082	-.2152867	.6730003
p_debt	2,014	.1502667	1.878986	-1.116229	23.22265

other_inv_t	2,014	-.1735232	.6205212	-3.002472	7.096043
ifscode	2,200	518.6273	287.6596	111	968
fd	2,180	.3720599	.2407235	.0260242	.9674348
fia	2,180	.380705	.2764909	.0016173	1
fid	2,180	.3095738	.2736186	.0048961	1
fie	2,180	.5691865	.1197885	.1233056	.8430366
fi	2,180	.4444668	.2269273	.0496998	.9781906
fma	2,180	.2763004	.2797769	0	1
fmd	2,180	.2777948	.2921403	0	1
fme	2,180	.2944621	.3686118	0	1
fm	2,180	.2863221	.2746949	0	.9494287
ggdy	2,178	53.69801	36.26452	1.562	344.317
xtdebt	2,030	132.7618	464.0633	2.500823	6596.141
NAMES_STD	0				
quarter	1,044	4	0	4	4
qdate	1,044	201	20.76246	167	235
country	0				
biscode	0				
sscb_res	1,044	.0086207	.1416328	-1	1
sscb_cons	1,044	.0038314	.0618094	0	1
sscb_oth	1,044	.0019157	.1072455	-1	2
sscb	1,044	.0143678	.1977449	-2	2
cap_req	1,042	.0134357	.1151864	0	1
concrat	1,036	.003861	.1389559	-1	1
ibex	864	.005787	.1127506	-1	1
ltv_cap	438	.0388128	.2546599	-1	1
rr_foreign	1,044	-.0076628	.2662525	-3	3
rr_local	1,044	-.0220307	.3254811	-3	4
cum_sscb_res	1,044	.1168582	.9672208	-3	5
cum_sscb_c~s	1,044	.0699234	.4694866	-1	6
cum_sscb_oth	1,044	.0603448	.6577208	-2	3
cum_sscb	1,044	.2471264	1.4075	-4	7
cum_cap_req	1,042	.7130518	.8978587	0	3
cum_concrat	1,036	.4305019	.9590636	-2	4
cum_ibex	864	.2141204	.6178006	-2	3
cum_ltv_cap	438	1.02968	1.760626	-3	8
cum_rr_for~n	1,044	.2614943	1.491302	-6	11
cum_rr_local	1,044	-.5804598	2.471359	-10	12
PruC	1,044	.0220307	.4043072	-1	1
cum_PruC	1,044	1.676245	4.611729	-12	24
PruC2	1,044	.0220307	.4043072	-1	1
cum_PruC2	1,044	1.672414	4.874451	-15	24
country_name	0				
kaopen	2,049	.7011285	1.530525	-1.923948	2.321955
ka_open	2,049	.6182611	.3604709	0	1
rn	2,200	3.372727	2.053664	1	7
lgovexp	2,127	2.696445	.3713954	-.0494565	3.56532
ner2010	95	738.1167	2424.683	.2866066	18612.92
ner2010basis	1,900	738.1167	2412.523	.2866066	18612.92
nerbasis	1,875	119.3276	74.76092	22.80764	1810.417
lnerbasis	1,875	4.708421	.3322778	3.127096	7.501312
reer2010	110	106.4804	10.13405	79.67883	138.4485
reer2010ba~s	2,200	106.4804	10.09018	79.67883	138.4485
reerbasis	2,200	98.33022	16.09791	16.63531	238.6128
lreerbasis	2,200	4.574536	.1708179	2.811527	5.474842
mean_pop	2,200	5.68e+07	1.76e+08	523287.6	1.34e+09
mean_ltot	2,200	-.014806	.0217527	-.0691785	.0171375
mean_lres	2,200	2.522981	.0804169	2.3659	2.697068
mean_lto	2,200	3.650269	.0528833	3.559611	3.726445
mean_lreer	2,200	4.632866	.0659639	4.507786	4.700569

mean_lreer~s	2,200	4.574536	.0659639	4.449456	4.642239
mean_ka_open	2,090	.6183107	.0213146	.5573173	.6582235
lgdppk_m		1	.1175517	.6860171	1.254007
lgdppk_m100	2,200	4.60517	.5413455	3.159225	5.774917
lgdppk_c	2,200	.8653263	.1019833	.599126	1.070424
ka_open_m	2,049	-3.46e-09	.3598359	-.6582235	.4426827
etot	2,200	-.0283768	1.305032	-6.816984	9.551851
etot_lres	2,200	-.1151234	3.760479	-22.0441	23.59367
ltot_lres	2,200	-.0470105	1.062068	-6.8438	6.22602
yr2001	2,200	.05	.2179945	0	1
yr2002	2,200	.05	.2179945	0	1
yr2003	2,200	.05	.2179945	0	1
yr2004	2,200	.05	.2179945	0	1
yr2005	2,200	.05	.2179945	0	1
yr2006	2,200	.05	.2179945	0	1
yr2007	2,200	.05	.2179945	0	1
yr2008	2,200	.05	.2179945	0	1
yr2009	2,200	.05	.2179945	0	1
yr2010	2,200	.05	.2179945	0	1
yr2011	2,200	.05	.2179945	0	1
yr2012	2,200	.05	.2179945	0	1
yr2013	2,200	.05	.2179945	0	1
yr2014	2,200	.05	.2179945	0	1
yr2015	2,200	.05	.2179945	0	1
yr2016	2,200	.05	.2179945	0	1
yr2017	2,200	.05	.2179945	0	1
yr2018	2,200	.05	.2179945	0	1
yr2019	2,200	.05	.2179945	0	1
yr2020	2,200	.05	.2179945	0	1
cny1	2,200	.0090909	.0949335	0	1
cny2	2,200	.0090909	.0949335	0	1
cny3	2,200	.0090909	.0949335	0	1
cny4	2,200	.0090909	.0949335	0	1
cny5	2,200	.0090909	.0949335	0	1
cny6	2,200	.0090909	.0949335	0	1
cny7	2,200	.0090909	.0949335	0	1
cny8	2,200	.0090909	.0949335	0	1
cny9	2,200	.0090909	.0949335	0	1
cny10	2,200	.0090909	.0949335	0	1
cny11	2,200	.0090909	.0949335	0	1
cny12	2,200	.0090909	.0949335	0	1
cny13	2,200	.0090909	.0949335	0	1
cny14	2,200	.0090909	.0949335	0	1
cny15	2,200	.0090909	.0949335	0	1
cny16	2,200	.0090909	.0949335	0	1
cny17	2,200	.0090909	.0949335	0	1
cny18	2,200	.0090909	.0949335	0	1
cny19	2,200	.0090909	.0949335	0	1
cny20	2,200	.0090909	.0949335	0	1
cny21	2,200	.0090909	.0949335	0	1
cny22	2,200	.0090909	.0949335	0	1
cny23	2,200	.0090909	.0949335	0	1
cny24	2,200	.0090909	.0949335	0	1
cny25	2,200	.0090909	.0949335	0	1
cny26	2,200	.0090909	.0949335	0	1
cny27	2,200	.0090909	.0949335	0	1
cny28	2,200	.0090909	.0949335	0	1
cny29	2,200	.0090909	.0949335	0	1
cny30	2,200	.0090909	.0949335	0	1
cny31	2,200	.0090909	.0949335	0	1
cny32	2,200	.0090909	.0949335	0	1

cny33	2,200	.0090909	.0949335	0	1
cny34	2,200	.0090909	.0949335	0	1
cny35	2,200	.0090909	.0949335	0	1
cny36	2,200	.0090909	.0949335	0	1
cny37	2,200	.0090909	.0949335	0	1
cny38	2,200	.0090909	.0949335	0	1
cny39	2,200	.0090909	.0949335	0	1
cny40	2,200	.0090909	.0949335	0	1
cny41	2,200	.0090909	.0949335	0	1
cny42	2,200	.0090909	.0949335	0	1
cny43	2,200	.0090909	.0949335	0	1
cny44	2,200	.0090909	.0949335	0	1
cny45	2,200	.0090909	.0949335	0	1
cny46	2,200	.0090909	.0949335	0	1
cny47	2,200	.0090909	.0949335	0	1
cny48	2,200	.0090909	.0949335	0	1
cny49	2,200	.0090909	.0949335	0	1
cny50	2,200	.0090909	.0949335	0	1
cny51	2,200	.0090909	.0949335	0	1
cny52	2,200	.0090909	.0949335	0	1
cny53	2,200	.0090909	.0949335	0	1
cny54	2,200	.0090909	.0949335	0	1
cny55	2,200	.0090909	.0949335	0	1
cny56	2,200	.0090909	.0949335	0	1
cny57	2,200	.0090909	.0949335	0	1
cny58	2,200	.0090909	.0949335	0	1
cny59	2,200	.0090909	.0949335	0	1
cny60	2,200	.0090909	.0949335	0	1
cny61	2,200	.0090909	.0949335	0	1
cny62	2,200	.0090909	.0949335	0	1
cny63	2,200	.0090909	.0949335	0	1
cny64	2,200	.0090909	.0949335	0	1
cny65	2,200	.0090909	.0949335	0	1
cny66	2,200	.0090909	.0949335	0	1
cny67	2,200	.0090909	.0949335	0	1
cny68	2,200	.0090909	.0949335	0	1
cny69	2,200	.0090909	.0949335	0	1
cny70	2,200	.0090909	.0949335	0	1
cny71	2,200	.0090909	.0949335	0	1
cny72	2,200	.0090909	.0949335	0	1
cny73	2,200	.0090909	.0949335	0	1
cny74	2,200	.0090909	.0949335	0	1
cny75	2,200	.0090909	.0949335	0	1
cny76	2,200	.0090909	.0949335	0	1
cny77	2,200	.0090909	.0949335	0	1
cny78	2,200	.0090909	.0949335	0	1
cny79	2,200	.0090909	.0949335	0	1
cny80	2,200	.0090909	.0949335	0	1
cny81	2,200	.0090909	.0949335	0	1
cny82	2,200	.0090909	.0949335	0	1
cny83	2,200	.0090909	.0949335	0	1
cny84	2,200	.0090909	.0949335	0	1
cny85	2,200	.0090909	.0949335	0	1
cny86	2,200	.0090909	.0949335	0	1
cny87	2,200	.0090909	.0949335	0	1
cny88	2,200	.0090909	.0949335	0	1
cny89	2,200	.0090909	.0949335	0	1
cny90	2,200	.0090909	.0949335	0	1
cny91	2,200	.0090909	.0949335	0	1
cny92	2,200	.0090909	.0949335	0	1
cny93	2,200	.0090909	.0949335	0	1

cny94	2,200	.0090909	.0949335	0	1
cny95	2,200	.0090909	.0949335	0	1
cny96	2,200	.0090909	.0949335	0	1
cny97	2,200	.0090909	.0949335	0	1
cny98	2,200	.0090909	.0949335	0	1
cny99	2,200	.0090909	.0949335	0	1
cny100	2,200	.0090909	.0949335	0	1
cny101	2,200	.0090909	.0949335	0	1
cny102	2,200	.0090909	.0949335	0	1
cny103	2,200	.0090909	.0949335	0	1
cny104	2,200	.0090909	.0949335	0	1
cny105	2,200	.0090909	.0949335	0	1
cny106	2,200	.0090909	.0949335	0	1
cny107	2,200	.0090909	.0949335	0	1
cny108	2,200	.0090909	.0949335	0	1
cny109	2,200	.0090909	.0949335	0	1
cny110	2,200	.0090909	.0949335	0	1
count_lgov~p	2,200	19.33636	2.986333	0	20
count_inf	2,200	19.53636	2.198339	0	20
count_lner~s	2,200	17.04545	6.894761	0	20
count_ka_o~n	2,200	18.62727	2.449523	0	19
count_cum_~c	2,200	9.490909	8.988645	0	18
L1lres	2,090	2.513818	.8910657	.0925683	4.697033
etot_L1lres	2,090	-.1356452	3.822141	-23.76123	24.91162
L2lto	1,980	3.65449	.4779124	2.377674	5.392096
residuals_~s	2,090	.0038792	.2310578	-2.301737	1.517386
residuals_~t	2,090	-.0121336	.5352992	-4.599114	4.943614
full	5	-.0361997	.0095226	-.0446566	-.0204671
full_se	5	.0144449	.0024782	.0118289	.0171719
full_up	5	-.0122087	.0067493	-.017243	-.0008264
full_lo	5	-.0601907	.0130257	-.0720702	-.0401078
full_up2	5	-.0075298	.0063795	-.0131042	.0030041
full_lo2	5	-.0648697	.0137485	-.0774167	-.0439383
below	5	-.0388882	.0109537	-.0494258	-.0223886
below_se	5	.0138515	.0013063	.0119078	.0149431
below_up	5	-.0157998	.009086	-.0245168	-.0025431
below_lo	5	-.0619767	.0129191	-.0743347	-.0422341
below_up2	5	-.0112635	.0087355	-.0196226	.0013548
below_lo2	5	-.0665129	.0133137	-.0792289	-.046132
above	5	-.0406797	.0297656	-.0711322	.00454
above_se	5	.032293	.0037959	.026968	.0372535
above_up	5	.0133931	.0293538	-.0142762	.0564009
above_lo	5	-.0947524	.0314881	-.1279882	-.0473208
above_up2	5	.0241085	.0294521	-.0030204	.0667024
above_lo2	5	-.1054678	.0319569	-.1392439	-.0576223
lreer_resid	1,900	-5.19e-11	.1030624	-.5247399	.9478187
resid	1,919	.0002949	.0721205	-.6108975	.4953292
_est_gfc_a~r	2,200	.5454545	.4980428	0	1
_cat	1,200	.44	.4965939	0	1
_est_gfc_a~i	2,200	.5454545	.4980428	0	1
_est_gfc_b~e	2,200	.3181818	.4658764	0	1
manufactured	2,200	.0727273	.2597473	0	1
eurozone	2,200	.1636364	.3700294	0	1
oecd	2,200	.2545455	.4357044	0	1
natres	2,200	.0909091	.2875451	0	1
commodity	2,200	.1727273	.3780973	0	1

```
.
. *** Controls - OECD vs non-OECD ***
.

. areg lreer lgdppk_m100 lgovexp c.etot##c.L1lres if count_lgovexp==20 & ///
> oecd==1, ///
> absorb(cn) vce(bootstrap, reps(200))
(running areg on estimation sample)

Bootstrap replications (200): .....10.....20.....30.....40.....50.....60.....70.....
> ..160.....170.....180.....190.....200 done
```

Linear regression, absorbing indicators
Absorbed variable: **cn**

	Number of obs	=	532
No. of categories	=	28	
Replications	=	200	
Wald chi2(5)	=	113.03	
Prob > chi2	=	0.0000	
R-squared	=	0.4612	
Adj R-squared	=	0.4266	
Root MSE	=	0.0741	

lreer	Observed coefficient	Bootstrap std. err.	z	P> z	Normal-based [95% conf. interval]	
lgdppk_m100	-.1259342	.0669537	-1.88	0.060	-.257161	.0052927
lgovexp	-.0424346	.0755131	-0.56	0.574	-.1904375	.1055684
etot	-.0584139	.0116882	-5.00	0.000	-.0813223	-.0355055
L1lres	-.0939452	.0107609	-8.73	0.000	-.1150361	-.0728542
c.etot##c.L1lres	.0481741	.0089716	5.37	0.000	.0305902	.0657581
_cons	5.51206	.4939445	11.16	0.000	4.543946	6.480173

```
.
. estimate store country_oecd

.

. areg lreer lgdppk_m100 lgovexp c.etot##c.L1lres if count_lgovexp==20 & ///
> oecd==0, ///
> absorb(cn) vce(bootstrap, reps(200))
(running areg on estimation sample)

Bootstrap replications (200): .....10.....20.....30.....40.....50.....60.....70.....
> ..160.....170.....180.....190.....200 done
```

Linear regression, absorbing indicators
Absorbed variable: **cn**

	Number of obs	=	1,368
No. of categories	=	72	
Replications	=	200	
Wald chi2(5)	=	178.66	
Prob > chi2	=	0.0000	
R-squared	=	0.4780	
Adj R-squared	=	0.4473	
Root MSE	=	0.1286	

lreer	Observed coefficient	Bootstrap std. err.	z	P> z	Normal-based [95% conf. interval]	
lgdppk_m100	.8298932	.0871853	9.52	0.000	.6590131	1.000773
lgovexp	.141255	.0283185	4.99	0.000	.0857516	.1967583
etot	.0358738	.0136777	2.62	0.009	.009066	.0626815
L1lres	.0496762	.0115125	4.31	0.000	.027112	.0722403
c.etot##c.L1lres	-.0197935	.0046332	-4.27	0.000	-.0288744	-.0107126
_cons	.4631748	.410653	1.13	0.259	-.3416903	1.26804

```
. estimate store country_non_oecd

.
. *** Controls - ECS without EZ ***
.
. // Europe and Central Asia without EZ (nT=22*19)
. areg lreer lgdppk_m100 lgovexp c.etot##c.L1lres if count_lgovexp==20 & ///
> rn==2 & eurozone==0, ///
> absorb(cn) vce(bootstrap, reps(200))
(running areg on estimation sample)

Bootstrap replications (200): .....10.....20.....30.....40.....50.....60.....70.....
> ..160.....170.....180.....190.....200 done
```

Linear regression, absorbing indicators
Absorbed variable: cn

	Number of obs	=	418
No. of categories	=	22	
Replications	=	200	
Wald chi2(5)	=	124.43	
Prob > chi2	=	0.0000	
R-squared	=	0.4634	
Adj R-squared	=	0.4277	
Root MSE	=	0.1042	

lreer	Observed coefficient	Bootstrap std. err.	z	P> z	Normal-based [95% conf. interval]	
lgdppk_m100	.8938939	.1155165	7.74	0.000	.6674857	1.120302
lgovexp	.0465997	.0716007	0.65	0.515	-.0937352	.1869345
etot	.1170801	.0516622	2.27	0.023	.015824	.2183362
L1lres	.1011961	.0225552	4.49	0.000	.0569887	.1454034
c.etot##c.L1lres	-.0446328	.0159943	-2.79	0.005	-.0759812	-.0132845
_cons	-.1426697	.5591416	-0.26	0.799	-1.238567	.9532278

```
. estimate store country_ecs_without_ez

.
. *** Controls - Commodities after 2008 ***
.
. areg lreer lgdppk_m100 lgovexp c.etot##c.L1lres if count_lgovexp==20 & commodity==1 & year>2008, ///
> absorb(cn) vce(bootstrap, reps(200))
(running areg on estimation sample)

Bootstrap replications (200): .....10.....20.....30.....40.....50.....60.....70.....
> ..160.....170.....180.....190.....200 done
```

Linear regression, absorbing indicators
Absorbed variable: cn

	Number of obs	=	204
No. of categories	=	17	
Replications	=	200	
Wald chi2(5)	=	20.42	
Prob > chi2	=	0.0010	
R-squared	=	0.6715	
Adj R-squared	=	0.6336	
Root MSE	=	0.1167	

lreer	Observed coefficient	Bootstrap std. err.	z	P> z	Normal-based [95% conf. interval]	
lgdppk_m100	.9816332	.3769394	2.60	0.009	.2428456	1.720421
lgovexp	.1562617	.1134695	1.38	0.168	-.0661345	.3786578
etot	.160567	.0653344	2.46	0.014	.032514	.2886201
L1lres	.0169851	.0515228	0.33	0.742	-.0839978	.117968
c.etot##c.L1lres	-.0404236	.0198476	-2.04	0.042	-.0793242	-.001523
_cons	-.3074909	1.78435	-0.17	0.863	-3.804752	3.18977

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```
. estimate store country_commodities

.
. outreg2 [country*] using "country.xml", replace `switches'
country.xml
dir : seeout

.
. log close _all
    name: RERTOT_JIMF
    log: C:\Users\jamel\Dropbox\Latex\PROJECTS\21-12-reer-tot-res\Estimation\Archive\RERTOT_JIMF.smcl
log type: smcl
closed on: 12 Jul 2025, 16:48:44
```
