

```
. do "C:\WINDOWS\Temp\STD00000000.tmp"
. *****from KG code
. gen contrate=(n0901*cont0901+n1001*cont1001+n1016*cont1016)/(n0901+n1001+n1016+1)
. gen candvisits=ln(bush+cheney+gore+lieb+1)
```

```
. *****Begin FFGR code
```

```
. *****
. *****
. *****
. *all 2000 (post Jan 1) ads
. *OUR TABLE 1 RESULTS
. replace toneall=toneall/10000
toneall was int now float
(128 real changes made)
```

```
. xi: regress turn00 senate toneall
```

Source	SS	df	MS			
Model	.366358017	2	.183179009	Number of obs =	128	
Residual	.198901296	125	.00159121	F(2, 125) =	115.12	
Total	.565259313	127	.004450861	Prob > F =	0.0000	
				R-squared =	0.6481	
				Adj R-squared =	0.6425	
				Root MSE =	.03989	

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
senate	.7519086	.0535441	14.04	0.000	.6459382	.857879
toneall	.0254535	.0052793	4.82	0.000	.015005	.0359019
_cons	.2127643	.0220866	9.63	0.000	.1690522	.2564764

```
. xi: regress turn00 senate i.state toneall
i.state _Istate_1-37 (_Istate_1 for state==AL omitted)
```

Source	SS	df	MS			
Model	.516638669	38	.013595754	Number of obs =	128	
Residual	.048620644	89	.000546299	F(38, 89) =	24.89	
Total	.565259313	127	.004450861	Prob > F =	0.0000	
				R-squared =	0.9140	
				Adj R-squared =	0.8773	
				Root MSE =	.02337	

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
senate	.8692058	.0567832	15.31	0.000	.7563789	.9820327
_Istate_2	-.0388296	.0214087	-1.81	0.073	-.0813681	.003709
_Istate_3	-.0008493	.0172315	-0.05	0.961	-.0350879	.0333893
_Istate_4	.0185599	.0218553	0.85	0.398	-.0248661	.061986
_Istate_5	.0934951	.0215763	4.33	0.000	.0506234	.1363668
_Istate_6	.0447565	.0167848	2.67	0.009	.0114055	.0781075
_Istate_7	.0033951	.0197453	0.17	0.864	-.0358384	.0426287
_Istate_8	.0528343	.021543	2.45	0.016	.0100288	.0956398
_Istate_9	.0219729	.0221246	0.99	0.323	-.0219882	.0659341
_Istate_10	.0353839	.0217891	1.62	0.108	-.0079105	.0786784
_Istate_11	.0066794	.0171497	0.39	0.698	-.0273967	.0407556
_Istate_12	.0522513	.0191525	2.73	0.008	.0141957	.0903068

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_Istate_13	-.0166759	.016611	-1.00	0.318	-.0496816	.0163297
_Istate_14	-.0027755	.0199566	-0.14	0.890	-.0424289	.0368778
_Istate_15	.0088628	.019124	0.46	0.644	-.0291361	.0468618
_Istate_16	.029706	.0177617	1.67	0.098	-.0055862	.0649983
_Istate_17	.0414469	.0174523	2.37	0.020	.0067695	.0761242
_Istate_18	.0403923	.0198375	2.04	0.045	.0009756	.0798091
_Istate_19	.011013	.0166203	0.66	0.509	-.0220111	.0440372
_Istate_20	-.0316263	.0224131	-1.41	0.162	-.0761606	.0129081
_Istate_21	.135947	.0215944	6.30	0.000	.0930393	.1788546
_Istate_22	-.0118381	.0226045	-0.52	0.602	-.0567528	.0330767
_Istate_23	.0077245	.0193937	0.40	0.691	-.0308104	.0462594
_Istate_24	.0471661	.0173029	2.73	0.008	.0127856	.0815466
_Istate_25	.032698	.0166912	1.96	0.053	-.000467	.065863
_Istate_26	.0343096	.0214448	1.60	0.113	-.0083008	.0769201
_Istate_27	.0617516	.0236878	2.61	0.011	.0146844	.1088187
_Istate_28	.063667	.0168886	3.77	0.000	.0301096	.0972244
_Istate_29	-.0294163	.0215309	-1.37	0.175	-.0721978	.0133652
_Istate_30	-.001658	.0191501	-0.09	0.931	-.0397087	.0363928
_Istate_31	.0219283	.0179768	1.22	0.226	-.0137912	.0576478
_Istate_32	-.0184184	.016722	-1.10	0.274	-.0516446	.0148079
_Istate_33	.0425212	.0223353	1.90	0.060	-.0018586	.086901
_Istate_34	.0036425	.0205839	0.18	0.860	-.0372573	.0445423
_Istate_35	.0970307	.0195714	4.96	0.000	.0581427	.1359187
_Istate_36	-.0026797	.0182034	-0.15	0.883	-.0388493	.03349
_Istate_37	-.0935624	.0244568	-3.83	0.000	-.1421575	-.0449673
toneall	.0129135	.0040727	3.17	0.002	.0048211	.0210059
_cons	.1598577	.0258242	6.19	0.000	.1085456	.2111698

. xi: regress turn00 turn96 turn92 turn88 senate i.state toneall
i.state _Istate_1-37 (_Istate_1 for state==AL omitted)

Source	SS	df	MS	Number of obs =	128
Model	.541283266	41	.013202031	F(41, 86) =	47.35
Residual	.023976048	86	.000278791	Prob > F =	0.0000
Total	.565259313	127	.004450861	R-squared =	0.9576
				Adj R-squared =	0.9374
				Root MSE =	.0167

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
turn96	.7417106	.101453	7.31	0.000	.5400287 .9433925
turn92	.095938	.1365939	0.70	0.484	-.1756016 .3674776
turn88	-.0533901	.0843546	-0.63	0.528	-.2210815 .1143013
senate	.2265509	.083218	2.72	0.008	.061119 .3919827
_Istate_2	-.0369744	.0156062	-2.37	0.020	-.0679986 -.0059502
_Istate_3	-.006288	.0124447	-0.51	0.615	-.0310271 .0184512
_Istate_4	.0058308	.0166513	0.35	0.727	-.0272708 .0389325
_Istate_5	.0194233	.017627	1.10	0.274	-.0156181 .0544646
_Istate_6	.0062983	.0132256	0.48	0.635	-.0199933 .0325899
_Istate_7	-.0119597	.0145038	-0.82	0.412	-.0407923 .0168729
_Istate_8	.002292	.0165346	0.14	0.890	-.0305776 .0351616
_Istate_9	-.0398237	.018802	-2.12	0.037	-.0772009 -.0024465
_Istate_10	.0143652	.0158749	0.90	0.368	-.017193 .0459234
_Istate_11	-.0195633	.0138166	-1.42	0.160	-.0470297 .0079031
_Istate_12	-.0192222	.0157369	-1.22	0.225	-.0505061 .0120618
_Istate_13	-.0014983	.0127224	-0.12	0.907	-.0267895 .023793
_Istate_14	-.0131001	.0147997	-0.89	0.379	-.0425209 .0163208
_Istate_15	.0120504	.0138107	0.87	0.385	-.0154044 .0395052
_Istate_16	.0059488	.0130221	0.46	0.649	-.0199384 .031836
_Istate_17	.0221953	.0129876	1.71	0.091	-.0036231 .0480137
_Istate_18	.0144381	.0179453	0.80	0.423	-.0212361 .0501122

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_Istate_19	.0053483	.0121732	0.44	0.662	-.0188512	.0295478
_Istate_20	-.0298323	.0164034	-1.82	0.072	-.0624412	.0027766
_Istate_21	.0431345	.0185668	2.32	0.023	.0062249	.0800441
_Istate_22	-.0143494	.0167267	-0.86	0.393	-.0476009	.0189021
_Istate_23	.0346933	.014438	2.40	0.018	.0059915	.0633951
_Istate_24	.0095087	.0134591	0.71	0.482	-.0172471	.0362646
_Istate_25	-.006707	.0127808	-0.52	0.601	-.0321144	.0187004
_Istate_26	-.019468	.016694	-1.17	0.247	-.0526547	.0137186
_Istate_27	-.0164393	.0189251	-0.87	0.387	-.0540611	.0211826
_Istate_28	.0209448	.0136892	1.53	0.130	-.0062685	.048158
_Istate_29	.0180211	.0172606	1.04	0.299	-.0162918	.0523339
_Istate_30	-.0105835	.0138442	-0.76	0.447	-.0381049	.0169379
_Istate_31	.0193936	.0131882	1.47	0.145	-.0068238	.0456109
_Istate_32	.0009193	.0126285	0.07	0.942	-.0241854	.0260239
_Istate_33	.01985	.0162453	1.22	0.225	-.0124445	.0521445
_Istate_34	-.0091661	.014977	-0.61	0.542	-.0389395	.0206073
_Istate_35	.0574913	.015252	3.77	0.000	.0271713	.0878112
_Istate_36	-.0194652	.0149965	-1.30	0.198	-.0492773	.0103469
_Istate_37	-.0529505	.0198448	-2.67	0.009	-.0924006	-.0135003
toneall	.0037977	.0031827	1.19	0.236	-.0025293	.0101247
_cons	.0354125	.0267065	1.33	0.188	-.0176783	.0885032

. xi: regress turn00 turn96 turn92 turn88 senate toneall

Source	SS	df	MS	Number of obs = 128		
Model	.502365979	5	.100473196	F(5, 122)	=	194.90
Residual	.062893334	122	.000515519	Prob > F	=	0.0000
Total	.565259313	127	.004450861	R-squared	=	0.8887
				Adj R-squared	=	0.8842
				Root MSE	=	.02271

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
turn96	.4874423	.0866346	5.63	0.000	.3159406	.6589441
turn92	.5135836	.1070762	4.80	0.000	.3016156	.7255517
turn88	-.1970236	.0666714	-2.96	0.004	-.3290064	-.0650408
senate	.1569975	.0494945	3.17	0.002	.0590181	.2549768
toneall	.0056155	.0032647	1.72	0.088	-.0008473	.0120784
_cons	.0284078	.0173304	1.64	0.104	-.0058995	.0627152

. xi: regress turn00 turn96 turn92 turn88 senate i.state toneall contrate candvisits
i.state _Istate_1-37 (_Istate_1 for state==AL omitted)

Source	SS	df	MS	Number of obs = 128		
Model	.545023187	43	.012674958	F(43, 84)	=	52.61
Residual	.020236126	84	.000240906	Prob > F	=	0.0000
Total	.565259313	127	.004450861	R-squared	=	0.9642
				Adj R-squared	=	0.9459
				Root MSE	=	.01552

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
turn96	.8012227	.0969017	8.27	0.000	.6085229	.9939224
turn92	.017118	.1363941	0.13	0.900	-.2541167	.2883527
turn88	-.0209337	.0826453	-0.25	0.801	-.1852829	.1434155
senate	.2146691	.0774356	2.77	0.007	.06068	.3686582
_Istate_2	-.0493531	.0148877	-3.32	0.001	-.0789589	-.0197474
_Istate_3	-.0205698	.0121887	-1.69	0.095	-.0448083	.0036687
_Istate_4	-.006333	.015792	-0.40	0.689	-.0377371	.025071

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_Istate_5	.0138221	.0164704	0.84	0.404	-.018931	.0465753
_Istate_6	-.0084785	.0130239	-0.65	0.517	-.0343779	.0174209
_Istate_7	-.0137552	.0135613	-1.01	0.313	-.0407232	.0132129
_Istate_8	-.0129977	.0163399	-0.80	0.429	-.0454914	.019496
_Istate_9	-.0384161	.0174829	-2.20	0.031	-.0731827	-.0036496
_Istate_10	-.0010405	.0152998	-0.07	0.946	-.0314658	.0293848
_Istate_11	-.0319522	.0133424	-2.39	0.019	-.058485	-.0054193
_Istate_12	-.0246166	.0148051	-1.66	0.100	-.0540582	.004825
_Istate_13	-.0117704	.0122515	-0.96	0.339	-.0361338	.012593
_Istate_14	-.0157605	.0138336	-1.14	0.258	-.04327	.0117491
_Istate_15	.0017793	.0131162	0.14	0.892	-.0243037	.0278624
_Istate_16	-.0042252	.01241	-0.34	0.734	-.0289038	.0204533
_Istate_17	.0140868	.0122497	1.15	0.253	-.0102731	.0384467
_Istate_18	.0055191	.0168634	0.33	0.744	-.0280157	.0390539
_Istate_19	.0053371	.0115211	0.46	0.644	-.0175739	.0282482
_Istate_20	-.0362968	.015337	-2.37	0.020	-.0667962	-.0057974
_Istate_21	.0279648	.0177528	1.58	0.119	-.0073386	.0632682
_Istate_22	-.0283684	.0159543	-1.78	0.079	-.0600954	.0033585
_Istate_23	.0300721	.0134784	2.23	0.028	.0032688	.0568753
_Istate_24	.0067095	.0127044	0.53	0.599	-.0185546	.0319737
_Istate_25	-.0192094	.0123276	-1.56	0.123	-.0437241	.0053053
_Istate_26	-.0192307	.015522	-1.24	0.219	-.0500979	.0116364
_Istate_27	-.022568	.0177753	-1.27	0.208	-.0579162	.0127802
_Istate_28	.0114556	.0129587	0.88	0.379	-.0143142	.0372254
_Istate_29	.0174188	.0170653	1.02	0.310	-.0165174	.0513551
_Istate_30	-.0280095	.0139115	-2.01	0.047	-.0556742	-.0003449
_Istate_31	.0106948	.0125422	0.85	0.396	-.0142467	.0356364
_Istate_32	.000154	.0118967	0.01	0.990	-.023504	.023812
_Istate_33	.020604	.0153534	1.34	0.183	-.009928	.0511359
_Istate_34	-.017344	.0141393	-1.23	0.223	-.0454615	.0107734
_Istate_35	.0460939	.0144783	3.18	0.002	.0173022	.0748857
_Istate_36	-.0274203	.0141668	-1.94	0.056	-.0555926	.000752
_Istate_37	-.0612537	.0186788	-3.28	0.002	-.0983986	-.0241089
toneall	-.0030729	.0034353	-0.89	0.374	-.0099043	.0037586
contrate	.0477473	.031579	1.51	0.134	-.0150509	.1105455
candvisits	.0073045	.0021112	3.46	0.001	.0031061	.0115029
_cons	.040021	.0255545	1.57	0.121	-.010797	.090839

. xi: regress turn00 turn96 turn92 turn88 senate toneall contrate candvisits

Source	SS	df	MS	Number of obs =	128
Model	.505409991	7	.072201427	F(7, 120) =	144.77
Residual	.059849322	120	.000498744	Prob > F =	0.0000
Total	.565259313	127	.004450861	R-squared =	0.8941
				Adj R-squared =	0.8879
				Root MSE =	.02233

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
turn96	.5017954	.0861957	5.82	0.000	.3311338 .6724569
turn92	.4859233	.1105764	4.39	0.000	.2669898 .7048568
turn88	-.1910474	.0701545	-2.72	0.007	-.3299484 -.0521464
senate	.1640845	.0488977	3.36	0.001	.0672705 .2608984
toneall	.0011675	.003683	0.32	0.752	-.0061246 .0084596
contrate	.0196023	.0347863	0.56	0.574	-.0492722 .0884769
candvisits	.0051833	.0022935	2.26	0.026	.0006424 .0097242
_cons	.0274304	.0170571	1.61	0.110	-.0063413 .0612022

. regh turn00 senate toneall, var(lncpop00 pq)

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v__istat7	.0143253	.0205066	0.70	0.485	-.0258669	.0545175
v__istat8	.0388544	.0152161	2.55	0.011	.0090315	.0686774
v__istat9	.0085523	.0136972	0.62	0.532	-.0182937	.0353983
v__ista10	.0562122	.0155288	3.62	0.000	.0257763	.0866482
v__ista11	-.0122421	.0133904	-0.91	0.361	-.0384869	.0140027
v__ista12	.0000602	.0162149	0.00	0.997	-.0317203	.0318407
v__ista13	.0162464	.0146753	1.11	0.268	-.0125167	.0450096
v__ista14	.0283898	.0145252	1.95	0.051	-.0000791	.0568588
v__ista15	.0486502	.0154261	3.15	0.002	.0184156	.0788847
v__ista16	.0414889	.0185339	2.24	0.025	.0051632	.0778146
v__ista17	.0151831	.0131187	1.16	0.247	-.010529	.0408952
v__ista18	-.0297427	.0195526	-1.52	0.128	-.068065	.0085797
v__ista19	.1366216	.0181778	7.52	0.000	.1009937	.1722495
v__ista20	-.0102146	.0163154	-0.63	0.531	-.0421922	.0217631
v__ista21	-.0127969	.0182093	-0.70	0.482	-.0484866	.0228927
v__ista22	.0458269	.0129953	3.53	0.000	.0203565	.0712973
v__ista23	.0340978	.0127035	2.68	0.007	.0091994	.0589962
v__ista24	.0318237	.0158332	2.01	0.044	.0007911	.0628563
v__ista25	.053232	.0194723	2.73	0.006	.015067	.091397
v__ista26	.0650232	.014012	4.64	0.000	.0375603	.0924862
v__ista27	-.0318938	.0168015	-1.90	0.058	-.0648242	.0010365
v__ista28	-.0021897	.0141695	-0.15	0.877	-.0299614	.0255821
v__ista29	.0201445	.013166	1.53	0.126	-.0056605	.0459495
v__ista30	-.0130414	.013464	-0.97	0.333	-.0394303	.0133475
v__ista31	.0459693	.0227923	2.02	0.044	.0012972	.0906415
v__ista32	.0063474	.0164725	0.39	0.700	-.0259382	.038633
v__ista33	.097766	.0155661	6.28	0.000	.0672571	.128275
v__ista34	.0069365	.0166832	0.42	0.678	-.025762	.039635
v__ista35	-.0853906	.0245581	-3.48	0.001	-.1335237	-.0372575
toneall	.0120724	.0032894	3.67	0.000	.0056253	.0185195
_cons	.1754696	.0293721	5.97	0.000	.1179013	.2330379

gamma						
lncpop00	-.2568241	.0848826	-3.03	0.002	-.4231909	-.0904572
pq	-5.154452	17.08879	-0.30	0.763	-38.64787	28.33897
_cons	-3.417071	3.844511	-0.89	0.374	-10.95217	4.118031

Model: log Var(y|x,z) = gamma

```
. *bootstrap "regh turn00 senate v__istate v__istat1 v__istat2 v__istat3 v__istat4
v__istat5 v__istat6
> v__istat7 v__istat8 v__istat9 v__ista10 v__ista11 v__ista12 v__ista13 v__ista14
v__ista15 v__ista16 v__
> ista17 v__ista18 v__ista19 v__ista20 v__ista21 v__ista22 v__ista23 v__ista24
v__ista25 v__ista26 v__i
> sta27 v__ista28 v__ista29 v__ista30 v__ista31 v__ista32 v__ista33 v__ista34
v__ista35 toneall, var(lnc
> pop00 pq)" _b _se, reps(1000) saving(bsout1) replace bca
. regh turn00 turn96 turn92 turn88 senate v__istate v__istat1 v__istat2 v__istat3
v__istat4 v__istat5 v
> __istat6 v__istat7 v__istat8 v__istat9 v__ista10 v__ista11 v__ista12 v__ista13
v__ista14 v__ista15 v__
> ista16 v__ista17 v__ista18 v__ista19 v__ista20 v__ista21 v__ista22 v__ista23
v__ista24 v__ista25 v__is
> ta26 v__ista27 v__ista28 v__ista29 v__ista30 v__ista31 v__ista32 v__ista33
v__ista34 v__ista35 toneall
> , var(lncpop00 pq)
```

```
Iteration 0: log likelihood = 376.84977
Iteration 1: log likelihood = 377.15355
Iteration 2: log likelihood = 387.8771
Iteration 3: log likelihood = 388.07197
Iteration 4: log likelihood = 388.07311
```

Iteration 5: log likelihood = 388.07311

multiplicative heteroscedastic regression
 Estimator: mle/Newton-Raphson

Number of obs = 128
 LR chi2(43) = 445.314
 Prob > chi2 = 0.000
 corr2(y,yh) = 0.9449
 vwcorr2(y,yh) = 0.9596

Log Likelihood = 388.073

turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
mean						
turn96	.7603733	.0861048	8.83	0.000	.591611	.9291356
turn92	.1379692	.1119386	1.23	0.218	-.0814264	.3573648
turn88	.0138342	.0701992	0.20	0.844	-.1237536	.1514221
senate	.0438485	.0673701	0.65	0.515	-.0881946	.1758915
v__istate	-.036109	.0103202	-3.50	0.000	-.0563363	-.0158817
v__istat1	.0007899	.0074543	0.11	0.916	-.0138201	.0154
v__istat2	.0104031	.0112558	0.92	0.355	-.0116579	.0324641
v__istat3	.0075051	.0113126	0.66	0.507	-.0146673	.0296775
v__istat4	.0046388	.0083552	0.56	0.579	-.0117371	.0210147
v__istat5	-.0049337	.0093308	-0.53	0.597	-.0232217	.0133542
v__istat6	.0022041	.0118952	0.19	0.853	-.0211101	.0255182
v__istat7	-.0606409	.0153407	-3.95	0.000	-.0907081	-.0305738
v__istat8	.0138276	.0089691	1.54	0.123	-.0037515	.0314067
v__istat9	-.0229522	.0094952	-2.42	0.016	-.0415624	-.0043419
v__ista10	-.0301155	.011138	-2.70	0.007	-.0519455	-.0082854
v__ista11	.0041757	.0085486	0.49	0.625	-.0125793	.0209307
v__ista12	-.0012024	.0106149	-0.11	0.910	-.0220072	.0196023
v__ista13	.0246923	.0085502	2.89	0.004	.0079342	.0414504
v__ista14	.0089884	.0087432	1.03	0.304	-.008148	.0261248
v__ista15	.0110039	.0101661	1.08	0.279	-.0089212	.030929
v__ista16	-.0066605	.0134614	-0.49	0.621	-.0330444	.0197234
v__ista17	.014075	.007826	1.80	0.072	-.0012637	.0294138
v__ista18	-.0221395	.0122817	-1.80	0.071	-.0462113	.0019322
v__ista19	.0330081	.0141252	2.34	0.019	.0053232	.0606931
v__ista20	-.0128384	.0101316	-1.27	0.205	-.032696	.0070193
v__ista21	.0231734	.0119925	1.93	0.053	-.0003314	.0466783
v__ista22	.0106399	.0086879	1.22	0.221	-.0063881	.027668
v__ista23	-.0072647	.0081546	-0.89	0.373	-.0232475	.008718
v__ista24	-.0280738	.0102151	-2.75	0.006	-.0480951	-.0080525
v__ista25	.0019567	.0130416	0.15	0.881	-.0236045	.0275178
v__ista26	.0148791	.0090775	1.64	0.101	-.0029126	.0326707
v__ista27	.0279238	.0112831	2.47	0.013	.0058094	.0500382
v__ista28	-.0035938	.0082574	-0.44	0.663	-.019778	.0125905
v__ista29	.0178322	.0079153	2.25	0.024	.0023185	.0333458
v__ista30	.013032	.0085622	1.52	0.128	-.0037497	.0298137
v__ista31	.0231539	.0174375	1.33	0.184	-.0110229	.0573307
v__ista32	-.0056155	.0101843	-0.55	0.581	-.0255763	.0143452
v__ista33	.0524489	.0109443	4.79	0.000	.0309986	.0738993
v__ista34	-.0232647	.0111948	-2.08	0.038	-.0452062	-.0013233
v__ista35	-.0184327	.0185256	-0.99	0.320	-.0547422	.0178768
toneall	.0056519	.0021023	2.69	0.007	.0015315	.0097723
_cons	.0367834	.0193066	1.91	0.057	-.0010569	.0746237
gamma						
lnpop00	-.3878891	.0800582	-4.85	0.000	-.5448002	-.2309779
pq	-23.46191	16.42257	-1.43	0.153	-55.64955	8.725736
_cons	1.794423	3.857184	0.47	0.642	-5.765519	9.354366

Model: log Var(y|x,z) = gamma

. *bootstrap "regh turn00 turn96 turn92 turn88 senate v__istate v__istat1 v__istat2

Replication_Log053007.log

```
v__istat3 v__istat4
> v__istat5 v__istat6 v__istat7 v__istat8 v__istat9 v__ista10 v__ista11 v__ista12
v__ista13 v__ista14 v
> __ista15 v__ista16 v__ista17 v__ista18 v__ista19 v__ista20 v__ista21 v__ista22
v__ista23 v__ista24 v__
> ista25 v__ista26 v__ista27 v__ista28 v__ista29 v__ista30 v__ista31 v__ista32
v__ista33 v__ista34 v__is
> ta35 toneall, var(lncpop00 pq)" _b _se, reps(1000) saving(bsout1) replace bca
. regh turn00 turn96 turn92 turn88 senate toneall, var(lncpop00 pq)
```

```
Iteration 0: log likelihood = 315.98266
Iteration 1: log likelihood = 319.58726
Iteration 2: log likelihood = 319.89159
Iteration 3: log likelihood = 319.89257
Iteration 4: log likelihood = 319.89257
```

```
multiplicative heteroscedastic regression      Number of obs   =      128
Estimator: mle/Newton-Raphson                 LR chi2(7)      =     308.953
                                                Prob > chi2     =      0.000
                                                corr2(y,yh)    =      0.8864
Log Likelihood = 319.893                      vwcorr2(y,yh)  =      0.8686
```

turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
mean						
turn96	.5186613	.0792739	6.54	0.000	.3632874	.6740353
turn92	.3978128	.0990978	4.01	0.000	.2035847	.5920409
turn88	-.1424427	.0622643	-2.29	0.022	-.2644786	-.0204068
senate	.1076221	.0439863	2.45	0.014	.0214107	.1938336
toneall	.0080268	.0026606	3.02	0.003	.0028121	.0132415
_cons	.0652157	.0187496	3.48	0.001	.0284671	.1019642
gamma						
lncpop00	-.118672	.0787123	-1.51	0.132	-.2729454	.0356013
pq	-48.91464	17.56248	-2.79	0.005	-83.33646	-14.49282
_cons	5.612777	4.048018	1.39	0.166	-2.321194	13.54675

Model: log Var(y|x,z) = gamma

```
. *bootstrap "regh turn00 turn96 turn92 turn88 senate toneall, var(lncpop00 pq)" _b
_se,reps(1000) savin
> g(bsout1) replace bca
. regh turn00 turn96 turn92 turn88 senate v__istate v__istat1 v__istat2 v__istat3
v__istat4 v__istat5 v_
> _istat6 v__istat7 v__istat8 v__istat9 v__ista10 v__ista11 v__ista12 v__ista13
v__ista14 v__ista15 v__i
> sta16 v__ista17 v__ista18 v__ista19 v__ista20 v__ista21 v__ista22 v__ista23
v__ista24 v__ista25 v__ist
> a26 v__ista27 v__ista28 v__ista29 v__ista30 v__ista31 v__ista32 v__ista33
v__ista34 v__ista35 toneall
> contrate candvisits, var(lncpop00 pq)
```

```
Iteration 0: log likelihood = 391.35648
Iteration 1: log likelihood = 403.00224
Iteration 2: log likelihood = 407.69863
Iteration 3: log likelihood = 407.74308
Iteration 4: log likelihood = 407.74311
```

```
multiplicative heteroscedastic regression      Number of obs   =      128
Estimator: mle/Newton-Raphson                 LR chi2(45)    =     484.654
                                                Prob > chi2     =      0.000
                                                corr2(y,yh)    =      0.9503
```


Log Likelihood = 407.743 Replication_Log053007.log vcorr2(y,yh) = 0.9743

turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
mean						
turn96	.8298315	.0764384	10.86	0.000	.680015	.979648
turn92	.1592472	.1002391	1.59	0.112	-.0372177	.3557121
turn88	-.012496	.0623316	-0.20	0.841	-.1346637	.1096718
senate	-.0024492	.0596897	-0.04	0.967	-.1194388	.1145405
v__istate	-.0462371	.0090585	-5.10	0.000	-.0639914	-.0284828
v__istat1	-.0124241	.0066541	-1.87	0.062	-.0254658	.0006176
v__istat2	-.0001168	.0093705	-0.01	0.990	-.0184826	.0182491
v__istat3	-.0002254	.0091492	-0.02	0.980	-.0181574	.0177066
v__istat4	-.0097154	.0074298	-1.31	0.191	-.0242774	.0048467
v__istat5	-.0044915	.0077086	-0.58	0.560	-.0196001	.010617
v__istat6	-.0097454	.0104479	-0.93	0.351	-.030223	.0107321
v__istat7	-.0608384	.0137436	-4.43	0.000	-.0877753	-.0339015
v__istat8	-.0031427	.0078344	-0.40	0.688	-.0184978	.0122124
v__istat9	-.029646	.0081848	-3.62	0.000	-.0456879	-.0136042
v__ista10	-.0389445	.0098109	-3.97	0.000	-.0581734	-.0197156
v__ista11	.0004499	.0075983	0.06	0.953	-.0144425	.0153422
v__ista12	-.0029957	.0090944	-0.33	0.742	-.0208205	.014829
v__ista13	.0202727	.0072574	2.79	0.005	.0060485	.0344968
v__ista14	-.0016549	.0074443	-0.22	0.824	-.0162455	.0129356
v__ista15	.0022561	.0087015	0.26	0.795	-.0147985	.0193107
v__ista16	-.0171886	.0121865	-1.41	0.158	-.0410737	.0066966
v__ista17	.0179288	.0068977	2.60	0.009	.0044095	.0314482
v__ista18	-.0247487	.0105937	-2.34	0.019	-.045512	-.0039853
v__ista19	.0158168	.0119118	1.33	0.184	-.0075298	.0391634
v__ista20	-.0257778	.0084666	-3.04	0.002	-.042372	-.0091837
v__ista21	.0229755	.0111297	2.06	0.039	.0011616	.0447894
v__ista22	.0063506	.0072947	0.87	0.384	-.0079468	.020648
v__ista23	-.020413	.0071067	-2.87	0.004	-.0343418	-.0064841
v__ista24	-.0309542	.0087545	-3.54	0.000	-.0481127	-.0137958
v__ista25	-.015274	.0101185	-1.51	0.131	-.0351058	.0045578
v__ista26	.0037653	.0078931	0.48	0.633	-.0117048	.0192354
v__ista27	.0384542	.0101801	3.78	0.000	.0185016	.0584069
v__ista28	-.0183289	.0076939	-2.38	0.017	-.0334087	-.0032491
v__ista29	.0117157	.0068498	1.71	0.087	-.0017097	.0251411
v__ista30	.0199701	.0073807	2.71	0.007	.0055042	.0344359
v__ista31	.019761	.0164571	1.20	0.230	-.0124944	.0520164
v__ista32	-.0118298	.0084876	-1.39	0.163	-.0284652	.0048057
v__ista33	.0386822	.0088339	4.38	0.000	.0213681	.0559962
v__ista34	-.0285502	.0099788	-2.86	0.004	-.0481083	-.0089921
v__ista35	-.021465	.0172555	-1.24	0.214	-.0552851	.0123551
toneall	-.0021503	.0021212	-1.01	0.311	-.0063077	.0020072
contrate	.0176008	.021613	0.81	0.415	-.0247599	.0599614
candvisits	.008458	.0012636	6.69	0.000	.0059813	.0109346
_cons	.02338	.0165124	1.42	0.157	-.0089837	.0557437
gamma						
lnpop00	-.55453	.0795332	-6.97	0.000	-.7104122	-.3986478
pq	-8.955627	15.79859	-0.57	0.571	-39.92029	22.00903
_cons	.0874283	3.858906	0.02	0.982	-7.475889	7.650746

Model: log Var(y|x,z) = gamma

```
. *bootstrap "regh turn00 turn96 turn92 turn88 senate v__istate v__istat1 v__istat2
v__istat3 v__istat4
> v__istat5 v__istat6 v__istat7 v__istat8 v__istat9 v__ista10 v__ista11 v__ista12
v__ista13 v__ista14 v__
> _ista15 v__ista16 v__ista17 v__ista18 v__ista19 v__ista20 v__ista21 v__ista22
```

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```
v__ista23 v__ista24 v__i
> sta25 v__ista26 v__ista27 v__ista28 v__ista29 v__ista30 v__ista31 v__ista32
v__ista33 v__ista34 v__ist
> a35 toneall contrate candvisits, var(lncpop00 pq)" _b _se, reps(1000)
saving(bsout1) replace bca
. regh turn00 turn96 turn92 turn88 senate toneall contrate candvisits, var(lncpop00
pq)
```

```
Iteration 0: log likelihood = 316.94725
Iteration 1: log likelihood = 322.04841
Iteration 2: log likelihood = 322.94919
Iteration 3: log likelihood = 322.9496
Iteration 4: log likelihood = 322.9496
```

```
multiplicative heteroscedastic regression      Number of obs = 128
Estimator: mle/Newton-Raphson                 LR chi2(9) = 315.067
                                                Prob > chi2 = 0.000
                                                corr2(y,yh) = 0.8910
Log Likelihood = 322.950                       vcorr2(y,yh) = 0.8751
```

turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	

mean						
turn96	.52566	.0778625	6.75	0.000	.3730523	.6782678
turn92	.3625854	.1007242	3.60	0.000	.1651697	.5600011
turn88	-.1194989	.0666573	-1.79	0.073	-.2501448	.011147
senate	.1084755	.0438659	2.47	0.013	.0225	.1944511
toneall	.0044144	.0029981	1.47	0.141	-.0014619	.0102907
contrate	.0443596	.0309557	1.43	0.152	-.0163124	.1050317
candvisits	.0032264	.0018919	1.71	0.088	-.0004817	.0069345
_cons	.0656223	.0184189	3.56	0.000	.0295218	.1017227

gamma						
lncpop00	-.1392202	.0794183	-1.75	0.080	-.2948772	.0164368
pq	-46.78672	17.45783	-2.68	0.007	-81.00344	-12.57
_cons	5.309721	4.024749	1.32	0.187	-2.578642	13.19808

Model: log Var(y|x,z) = gamma

```
. *bootstrap "regh turn00 turn96 turn92 turn88 senate toneall contrate candvisits,
var(lncpop00 pq)" _b
> _se, reps(1000) saving(bsout1) replace bca
```

```
.
. *OUR TONE RESULTS
. replace pro=pro/10000
pro was int now float
(128 real changes made)

. replace neg=neg/10000
neg was int now float
(128 real changes made)

. replace con=con/10000
con was int now float
(128 real changes made)
```

```
. xi: regress turn00 senate neg con pro
```

Source	SS	df	MS	Number of obs =	128
Model	.371940856	4	.092985214	F(4, 123) =	59.16
				Prob > F =	0.0000

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Residual		.193318457	123	.001571695	R-squared	=	0.6580
Total		.565259313	127	.004450861	Adj R-squared	=	0.6469
					Root MSE	=	.03964

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
senate	.7329552	.0543416	13.49	0.000	.6253894	.8405209
neg	-.0406286	.0360039	-1.13	0.261	-.1118962	.0306389
con	.0545805	.0366998	1.49	0.140	-.0180645	.1272255
pro	.0602582	.0256647	2.35	0.020	.0094565	.1110598
_cons	.2148707	.0219823	9.77	0.000	.1713582	.2583833

. xi: regress turn00 senate i.state neg con pro
i.state _Istate_1-37 (_Istate_1 for state==AL omitted)

Source	SS	df	MS	Number of obs	=	128
Model	.518378409	40	.01295946	F(40, 87)	=	24.05
Residual	.046880905	87	.000538861	Prob > F	=	0.0000
Total	.565259313	127	.004450861	R-squared	=	0.9171
				Adj R-squared	=	0.8789
				Root MSE	=	.02321

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
senate	.8581019	.0567767	15.11	0.000	.7452521	.9709518
_Istate_2	-.0339156	.022003	-1.54	0.127	-.077649	.0098177
_Istate_3	.0016256	.0172177	0.09	0.925	-.0325963	.0358476
_Istate_4	.0233302	.0218844	1.07	0.289	-.0201675	.0668278
_Istate_5	.0938939	.0215614	4.35	0.000	.0510383	.1367495
_Istate_6	.0417096	.0168917	2.47	0.015	.0081356	.0752836
_Istate_7	.0030131	.0196164	0.15	0.878	-.0359765	.0420028
_Istate_8	.0593807	.0217344	2.73	0.008	.0161813	.1025801
_Istate_9	.0240922	.0221909	1.09	0.281	-.0200146	.068199
_Istate_10	.0366119	.0217687	1.68	0.096	-.0066556	.0798795
_Istate_11	.0104431	.0171702	0.61	0.545	-.0236846	.0445708
_Istate_12	.0509032	.0192081	2.65	0.010	.0127251	.0890813
_Istate_13	-.014788	.0166906	-0.89	0.378	-.0479624	.0183864
_Istate_14	.0020651	.0202156	0.10	0.919	-.0381156	.0422458
_Istate_15	.0089813	.0190238	0.47	0.638	-.0288306	.0467932
_Istate_16	.0319094	.017686	1.80	0.075	-.0032433	.0670622
_Istate_17	.0425967	.0173497	2.46	0.016	.0081123	.0770811
_Istate_18	.0389956	.0197678	1.97	0.052	-.000295	.0782862
_Istate_19	.0128316	.0165378	0.78	0.440	-.020039	.0457023
_Istate_20	-.025075	.0225904	-1.11	0.270	-.0699758	.0198257
_Istate_21	.1411394	.0218455	6.46	0.000	.0977191	.1845596
_Istate_22	-.0122221	.0224515	-0.54	0.588	-.0568468	.0324027
_Istate_23	.010196	.0193125	0.53	0.599	-.0281897	.0485817
_Istate_24	.0503596	.0172781	2.91	0.005	.0160175	.0847017
_Istate_25	.0319955	.0165898	1.93	0.057	-.0009785	.0649696
_Istate_26	.0366183	.0214455	1.71	0.091	-.006007	.0792435
_Istate_27	.066313	.0238886	2.78	0.007	.0188318	.1137942
_Istate_28	.0642487	.0167832	3.83	0.000	.0308902	.0976071
_Istate_29	-.0237038	.0216764	-1.09	0.277	-.066788	.0193804
_Istate_30	.0014688	.0193114	0.08	0.940	-.0369146	.0398523
_Istate_31	.0222787	.0179431	1.24	0.218	-.0133851	.0579426
_Istate_32	-.0211729	.016681	-1.27	0.208	-.0543282	.0119824
_Istate_33	.0490862	.0225908	2.17	0.033	.0041844	.0939879
_Istate_34	.0044663	.0206353	0.22	0.829	-.0365486	.0454813
_Istate_35	.1008629	.0199317	5.06	0.000	.0612465	.1404792
_Istate_36	-.0050169	.0181306	-0.28	0.783	-.0410534	.0310196

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_Istate_37	-.0907716	.0243468	-3.73	0.000	-.1391634	-.0423798
neg	-.0037543	.0248976	-0.15	0.880	-.053241	.0457325
con	.057097	.0254347	2.24	0.027	.0065427	.1076513
pro	-.0029535	.0196309	-0.15	0.881	-.041972	.036065
_cons	.1636836	.0260655	6.28	0.000	.1118755	.2154917

. xi: regress turn00 turn96 turn92 turn88 senate i.state neg con pro
i.state _Istate_1-37 (_Istate_1 for state==AL omitted)

Source	SS	df	MS	Number of obs =	128
Model	.542036948	43	.01260551	F(43, 84) =	45.60
Residual	.023222365	84	.000276457	Prob > F =	0.0000
Total	.565259313	127	.004450861	R-squared =	0.9589
				Adj R-squared =	0.9379
				Root MSE =	.01663

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
turn96	.7339802	.10199	7.20	0.000	.5311619 .9367985
turn92	.0893262	.1370531	0.65	0.516	-.183219 .3618714
turn88	-.0467485	.0857962	-0.54	0.587	-.2173636 .1238666
senate	.2249999	.0836483	2.69	0.009	.058656 .3913437
_Istate_2	-.0365182	.0161986	-2.25	0.027	-.0687309 -.0043054
_Istate_3	-.0042108	.0124565	-0.34	0.736	-.028982 .0205604
_Istate_4	.0081018	.0168388	0.48	0.632	-.0253839 .0415875
_Istate_5	.0192657	.0178013	1.08	0.282	-.0161341 .0546655
_Istate_6	.0038213	.0133622	0.29	0.776	-.0227509 .0303934
_Istate_7	-.0121471	.014446	-0.84	0.403	-.0408745 .0165803
_Istate_8	.00721	.016797	0.43	0.669	-.0261926 .0406126
_Istate_9	-.0370075	.018818	-1.97	0.053	-.0744291 .0004141
_Istate_10	.0162789	.0158636	1.03	0.308	-.0152675 .0478253
_Istate_11	-.0170244	.0139284	-1.22	0.225	-.0447226 .0106737
_Istate_12	-.0205152	.0159205	-1.29	0.201	-.0521749 .0111445
_Istate_13	-.0017915	.0128589	-0.14	0.890	-.0273627 .0237798
_Istate_14	-.0088448	.0149688	-0.59	0.556	-.0386118 .0209223
_Istate_15	.0115381	.0137817	0.84	0.405	-.0158684 .0389446
_Istate_16	.007626	.0130265	0.59	0.560	-.0182787 .0335306
_Istate_17	.0227541	.0129949	1.75	0.084	-.0030877 .0485959
_Istate_18	.0124155	.0182254	0.68	0.498	-.0238277 .0486587
_Istate_19	.0063996	.0121599	0.53	0.600	-.0177818 .0305809
_Istate_20	-.0266906	.0166383	-1.60	0.112	-.0597777 .0063965
_Istate_21	.0486484	.0187916	2.59	0.011	.0112792 .0860176
_Istate_22	-.0146599	.0166629	-0.88	0.381	-.0477959 .0184761
_Istate_23	.0362121	.0144234	2.51	0.014	.0075295 .0648948
_Istate_24	.0118072	.0135492	0.87	0.386	-.015137 .0387513
_Istate_25	-.0065085	.0127313	-0.51	0.611	-.0318261 .018809
_Istate_26	-.0184943	.016828	-1.10	0.275	-.0519586 .0149701
_Istate_27	-.0112383	.0191104	-0.59	0.558	-.0492413 .0267648
_Istate_28	.0213352	.0137373	1.55	0.124	-.005983 .0486534
_Istate_29	.0202144	.0172936	1.17	0.246	-.0141758 .0546046
_Istate_30	-.0098874	.0140023	-0.71	0.482	-.0377325 .0179578
_Istate_31	.0185642	.0132853	1.40	0.166	-.0078552 .0449835
_Istate_32	-.0011534	.0126424	-0.09	0.928	-.0262941 .0239873
_Istate_33	.0251363	.0164915	1.52	0.131	-.0076589 .0579315
_Istate_34	-.0071813	.0150463	-0.48	0.634	-.0371025 .0227399
_Istate_35	.0619773	.0154729	4.01	0.000	.0312076 .0927469
_Istate_36	-.020859	.014974	-1.39	0.167	-.0506366 .0089185
_Istate_37	-.0513896	.0197907	-2.60	0.011	-.0907455 -.0120336
neg	.0046649	.0183388	0.25	0.800	-.0318038 .0411337
con	.0282266	.0185547	1.52	0.132	-.0086715 .0651246
pro	-.0138037	.0143109	-0.96	0.338	-.0422625 .0146552

_cons | .041285 .0268576 1.54 0.128 -.0121242 .0946942

. xi: regress turn00 turn96 turn92 turn88 senate neg con pro

Source	SS	df	MS	Number of obs =	128
Model	.503012716	7	.071858959	F(7, 120) =	138.53
Residual	.062246597	120	.000518722	Prob > F =	0.0000
				R-squared =	0.8899
				Adj R-squared =	0.8835
Total	.565259313	127	.004450861	Root MSE =	.02278

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
turn96	.4783737	.0873472	5.48	0.000	.3054324 .6513151
turn92	.5223259	.1078259	4.84	0.000	.3088382 .7358136
turn88	-.2035902	.067286	-3.03	0.003	-.3368118 -.0703686
senate	.1586102	.0497061	3.19	0.002	.0601956 .2570248
neg	-.0143913	.0209948	-0.69	0.494	-.0559595 .027177
con	.0270021	.0212818	1.27	0.207	-.0151345 .0691386
pro	.0079375	.0152403	0.52	0.603	-.0222372 .0381123
_cons	.0298786	.0176325	1.69	0.093	-.0050325 .0647897

. xi: regress turn00 turn96 turn92 turn88 senate i.state neg con pro contrate
candvisits
i.state _Istate_1-37 (_Istate_1 for state==AL omitted)

Source	SS	df	MS	Number of obs =	128
Model	.54544906	45	.01212109	F(45, 82) =	50.17
Residual	.019810253	82	.000241588	Prob > F =	0.0000
				R-squared =	0.9650
				Adj R-squared =	0.9457
Total	.565259313	127	.004450861	Root MSE =	.01554

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
turn96	.7873804	.0980068	8.03	0.000	.5924136 .9823473
turn92	.0258012	.1373521	0.19	0.851	-.2474359 .2990383
turn88	-.0254815	.0842087	-0.30	0.763	-.1929995 .1420365
senate	.2175693	.078243	2.78	0.007	.0619191 .3732196
_Istate_2	-.0470703	.0154606	-3.04	0.003	-.0778263 -.0163143
_Istate_3	-.0184083	.0123411	-1.49	0.140	-.0429587 .006142
_Istate_4	-.0033927	.0160562	-0.21	0.833	-.0353336 .0285481
_Istate_5	.0146748	.0167048	0.88	0.382	-.0185564 .0479059
_Istate_6	-.0090129	.0131273	-0.69	0.494	-.0351274 .0171015
_Istate_7	-.0135687	.0135827	-1.00	0.321	-.0405891 .0134517
_Istate_8	-.0078855	.0168105	-0.47	0.640	-.041327 .0255561
_Istate_9	-.036119	.0175967	-2.05	0.043	-.0711245 -.0011135
_Istate_10	.0008451	.0154431	0.05	0.956	-.0298762 .0315664
_Istate_11	-.0289605	.0135654	-2.13	0.036	-.0559463 -.0019747
_Istate_12	-.0243367	.0150305	-1.62	0.109	-.0542371 .0055637
_Istate_13	-.0107309	.0124133	-0.86	0.390	-.035425 .0139631
_Istate_14	-.0125066	.014114	-0.89	0.378	-.0405839 .0155706
_Istate_15	.0020937	.0131476	0.16	0.874	-.0240611 .0282485
_Istate_16	-.0025402	.0124928	-0.20	0.839	-.0273923 .0223119
_Istate_17	.015179	.0123201	1.23	0.221	-.0093297 .0396877
_Istate_18	.0054755	.0171666	0.32	0.751	-.0286743 .0396253
_Istate_19	.006609	.0115868	0.57	0.570	-.0164409 .0296588
_Istate_20	-.0329774	.0156495	-2.11	0.038	-.0641093 -.0018456
_Istate_21	.0328696	.0181808	1.81	0.074	-.0032977 .069037

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_Istate_22	-.0280293	.015979	-1.75	0.083	-.0598166	.003758
_Istate_23	.0311968	.01356	2.30	0.024	.0042216	.0581719
_Istate_24	.0091982	.012888	0.71	0.477	-.0164402	.0348366
_Istate_25	-.018427	.0123597	-1.49	0.140	-.0430145	.0061604
_Istate_26	-.0177149	.0157376	-1.13	0.264	-.049022	.0135922
_Istate_27	-.0188887	.0180559	-1.05	0.299	-.0548077	.0170303
_Istate_28	.0126353	.0130623	0.97	0.336	-.0133499	.0386204
_Istate_29	.0202226	.0172398	1.17	0.244	-.0140728	.054518
_Istate_30	-.0257918	.0141171	-1.83	0.071	-.0538753	.0022916
_Istate_31	.011158	.0126685	0.88	0.381	-.0140436	.0363597
_Istate_32	-.0011968	.011957	-0.10	0.921	-.0249831	.0225896
_Istate_33	.0240714	.0156176	1.54	0.127	-.006997	.0551397
_Istate_34	-.0158991	.0143387	-1.11	0.271	-.0444233	.0126251
_Istate_35	.0493831	.0148478	3.33	0.001	.0198461	.0789202
_Istate_36	-.0277638	.0142016	-1.95	0.054	-.0560152	.0004877
_Istate_37	-.0597029	.018766	-3.18	0.002	-.0970344	-.0223713
neg	-.0075997	.0174515	-0.44	0.664	-.0423162	.0271168
con	.0184064	.0176204	1.04	0.299	-.0166462	.053459
pro	-.0130971	.0134029	-0.98	0.331	-.0397598	.0135655
contrate	.0422987	.0319377	1.32	0.189	-.0212355	.1058328
candvisits	.0071825	.0021254	3.38	0.001	.0029543	.0114107
_cons	.0430603	.0257499	1.67	0.098	-.0081645	.0942851

. xi: regress turn00 turn96 turn92 turn88 senate neg con pro contrate candvisits

Source	SS	df	MS	Number of obs =	128
Model	.506257627	9	.056250847	F(9, 118) =	112.50
Residual	.059001686	118	.000500014	Prob > F =	0.0000
Total	.565259313	127	.004450861	R-squared =	0.8956
				Adj R-squared =	0.8877
				Root MSE =	.02236

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
turn96	.4936115	.086769	5.69	0.000	.3217853 .6654378
turn92	.4919706	.1112729	4.42	0.000	.2716201 .7123212
turn88	-.1986698	.0704971	-2.82	0.006	-.3382733 -.0590664
senate	.1654979	.0490171	3.38	0.001	.0684307 .2625652
neg	-.0244594	.0210099	-1.16	0.247	-.0660648 .0171459
con	.0223334	.0209811	1.06	0.289	-.0192149 .0638817
pro	.0079192	.0149903	0.53	0.598	-.0217657 .0376041
contrate	.0214907	.0349921	0.61	0.540	-.0478032 .0907847
candvisits	.0053658	.0023058	2.33	0.022	.0007996 .009932
_cons	.0297968	.0173138	1.72	0.088	-.0044893 .0640829

. regh turn00 senate neg con pro, var(lncpop00 pq)

Iteration 0: log likelihood = 240.6776
 Iteration 1: log likelihood = 245.21866
 Iteration 2: log likelihood = 246.77114
 Iteration 3: log likelihood = 246.77271
 Iteration 4: log likelihood = 246.77271

multiplicative heteroscedastic regression	Number of obs =	128
Estimator: mle/Newton-Raphson	LR chi2(6) =	162.714
	Prob > chi2 =	0.000
	corr2(y,yh) =	0.6545
Log Likelihood = 246.773	wcorr2(y,yh) =	0.5684

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turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
mean						
senate	.6138144	.0560644	10.95	0.000	.5039301	.7236986
neg	-.0220134	.0281376	-0.78	0.434	-.077162	.0331352
con	.0633509	.0300634	2.11	0.035	.0044278	.122274
pro	.0271658	.0212632	1.28	0.201	-.0145093	.0688409
_cons	.2649849	.0220339	12.03	0.000	.2217993	.3081705
gamma						
lncpop00	-.1414659	.085504	-1.65	0.098	-.3090507	.0261188
pq	-72.58233	20.39166	-3.56	0.000	-112.5492	-32.61542
_cons	12.81852	4.949347	2.59	0.010	3.11798	22.51907

Model: log Var(y|x,z) = gamma

```
. *bootstrap "regh turn00 senate neg con pro, var(lncpop00 pq)" _b _se, reps(1000)
saving(bsout1) replace
> bca
. regh turn00 senate v__istate v__istat1 v__istat2 v__istat3 v__istat4 v__istat5
v__istat6 v__istat7 v__
> _istat8 v__istat9 v__ista10 v__ista11 v__ista12 v__ista13 v__ista14 v__ista15
v__ista16 v__ista17 v__i
> sta18 v__ista19 v__ista20 v__ista21 v__ista22 v__ista23 v__ista24 v__ista25
v__ista26 v__ista27 v__ist
> a28 v__ista29 v__ista30 v__ista31 v__ista32 v__ista33 v__ista34 v__ista35 neg con
pro, var(lncpop00 pq
> )
```

```
Iteration 0: log likelihood = 326.84847
Iteration 1: log likelihood = 331.30233
Iteration 2: log likelihood = 331.6444
Iteration 3: log likelihood = 331.64574
Iteration 4: log likelihood = 331.64574
```

```
multiplicative heteroscedastic regression      Number of obs =      128
Estimator: mle/Newton-Raphson                 LR chi2(42) =      332.460
                                                Prob > chi2 =      0.000
                                                corr2(y,yh) =      0.9114
Log Likelihood = 331.646                       vwcorr2(y,yh) =      0.9099
```

turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
mean						
senate	.8329115	.0676816	12.31	0.000	.7002579	.9655651
v__istate	-.0272676	.0170622	-1.60	0.110	-.0607089	.0061738
v__istat1	.0049977	.0123722	0.40	0.686	-.0192514	.0292468
v__istat2	.0215247	.0168649	1.28	0.202	-.01153	.0545794
v__istat3	.0919963	.0154076	5.97	0.000	.0617981	.1221946
v__istat4	.0406969	.0125954	3.23	0.001	.0160103	.0653835
v__istat5	.0053152	.015513	0.34	0.732	-.0250897	.0357202
v__istat6	.0582105	.0173339	3.36	0.001	.0242368	.0921843
v__istat7	.0143347	.0205367	0.70	0.485	-.0259165	.054586
v__istat8	.0404678	.014851	2.72	0.006	.0113604	.0695753
v__istat9	.0143423	.01389	1.03	0.302	-.0128816	.0415661
v__ista10	.0553302	.0152609	3.63	0.000	.0254194	.0852409
v__ista11	-.0084055	.013353	-0.63	0.529	-.034577	.0177659
v__ista12	.0042521	.0160826	0.26	0.791	-.0272692	.0357733
v__ista13	.0148806	.0142746	1.04	0.297	-.0130972	.0428583
v__ista14	.0306615	.0141812	2.16	0.031	.0028669	.0584561
v__ista15	.0469442	.0150607	3.12	0.002	.0174258	.0764626

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v__ista16	.0428808	.0185163	2.32	0.021	.0065896	.079172
v__ista17	.0180939	.0129476	1.40	0.162	-.007283	.0434707
v__ista18	-.0218785	.0193755	-1.13	0.259	-.0598537	.0160967
v__ista19	.1424319	.0180246	7.90	0.000	.1071044	.1777593
v__ista20	-.0110843	.0157581	-0.70	0.482	-.0419697	.019801
v__ista21	-.0098375	.0180861	-0.54	0.586	-.0452855	.0256105
v__ista22	.0484402	.0126975	3.81	0.000	.0235534	.0733269
v__ista23	.0329451	.0124169	2.65	0.008	.0086085	.0572817
v__ista24	.0350587	.0155202	2.26	0.024	.0046396	.0654778
v__ista25	.0562692	.018731	3.00	0.003	.0195571	.0929812
v__ista26	.0676923	.0138174	4.90	0.000	.0406106	.0947739
v__ista27	-.0256689	.0166346	-1.54	0.123	-.0582722	.0069344
v__ista28	.00188	.0139842	0.13	0.893	-.0255285	.0292885
v__ista29	.0206861	.0128493	1.61	0.107	-.004498	.0458702
v__ista30	-.0162349	.0131715	-1.23	0.218	-.0420505	.0095807
v__ista31	.0510232	.0226746	2.25	0.024	.0065818	.0954646
v__ista32	.0038335	.0163226	0.23	0.814	-.0281582	.0358252
v__ista33	.1002706	.0152401	6.58	0.000	.0704006	.1301407
v__ista34	.0058915	.0165866	0.36	0.722	-.0266176	.0384007
v__ista35	-.0855544	.0243097	-3.52	0.000	-.1332006	-.0379083
neg	-.0155568	.0182371	-0.85	0.394	-.051301	.0201873
con	.063054	.0198441	3.18	0.001	.0241603	.1019477
pro	.0007741	.0153067	0.05	0.960	-.0292264	.0307746
_cons	.1739562	.0287451	6.05	0.000	.1176169	.2302955

gamma						
lncpop00	-.2929114	.0876872	-3.34	0.001	-.4647751	-.1210477
pq	-.8364143	17.03225	-0.05	0.961	-34.219	32.54618
_cons	-4.05889	3.824692	-1.06	0.289	-11.55515	3.437369

Model: log Var(y|x,z) = gamma

```

. *bootstrap "regh turn00 senate v__istate v__istat1 v__istat2 v__istat3 v__istat4
v__istat5 v__istat6
> v__istat7 v__istat8 v__istat9 v__ista10 v__ista11 v__ista12 v__ista13 v__ista14
v__ista15 v__ista16 v__
> _ista17 v__ista18 v__ista19 v__ista20 v__ista21 v__ista22 v__ista23 v__ista24
v__ista25 v__ista26 v__i
> sta27 v__ista28 v__ista29 v__ista30 v__ista31 v__ista32 v__ista33 v__ista34
v__ista35 neg con pro, var
> (lncpop00 pq)" _b _se, reps(1000) saving(bsout1) replace bca
. regh turn00 turn96 turn92 turn88 senate v__istate v__istat1 v__istat2 v__istat3
v__istat4 v__istat5 v
> _istat6 v__istat7 v__istat8 v__istat9 v__ista10 v__ista11 v__ista12 v__ista13
v__ista14 v__ista15 v__
> ista16 v__ista17 v__ista18 v__ista19 v__ista20 v__ista21 v__ista22 v__ista23
v__ista24 v__ista25 v__is
> ta26 v__ista27 v__ista28 v__ista29 v__ista30 v__ista31 v__ista32 v__ista33
v__ista34 v__ista35 neg con
> pro, var(lncpop00 pq)

```

```

Iteration 0: log likelihood = 377.68568
Iteration 1: log likelihood = 390.56081
Iteration 2: log likelihood = 391.70313
Iteration 3: log likelihood = 391.7218
Iteration 4: log likelihood = 391.72181

```

```

multiplicative heteroscedastic regression      Number of obs = 128
Estimator: mle/Newton-Raphson                LR chi2(45) = 452.612
                                                Prob > chi2 = 0.000
                                                corr2(y,yh) = 0.9444
Log Likelihood = 391.722                      wcorr2(y,yh) = 0.9623

```


Replication_Log053007.log

turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
mean						
turn96	.7286045	.0881391	8.27	0.000	.5558551	.9013539
turn92	.1713233	.1126726	1.52	0.128	-.0495108	.3921575
turn88	.0128503	.0692516	0.19	0.853	-.1228803	.148581
senate	.0357	.0661565	0.54	0.589	-.0939644	.1653644
v__istate	-.0344156	.0104526	-3.29	0.001	-.0549022	-.013929
v__istat1	.0039064	.0072642	0.54	0.591	-.0103312	.0181439
v__istat2	.011463	.0109586	1.05	0.296	-.0100155	.0329415
v__istat3	.0062734	.0110026	0.57	0.569	-.0152912	.0278381
v__istat4	.0031535	.0081387	0.39	0.698	-.0127982	.0191051
v__istat5	-.0023372	.0090669	-0.26	0.797	-.0201079	.0154335
v__istat6	.0082897	.0118023	0.70	0.482	-.0148423	.0314218
v__istat7	-.056028	.015035	-3.73	0.000	-.0854961	-.0265599
v__istat8	.0168041	.0086653	1.94	0.052	-.0001795	.0337877
v__istat9	-.0162176	.0095254	-1.70	0.089	-.034887	.0024519
v__ista10	-.0325374	.0109799	-2.96	0.003	-.0540576	-.0110171
v__ista11	.0051499	.0084112	0.61	0.540	-.0113359	.0216356
v__ista12	.0069485	.0107705	0.65	0.519	-.0141612	.0280583
v__ista13	.0234634	.0082087	2.86	0.004	.0073746	.0395522
v__ista14	.011783	.0085365	1.38	0.167	-.0049482	.0285142
v__ista15	.0092457	.0098797	0.94	0.349	-.0101182	.0286096
v__ista16	-.0084696	.0131857	-0.64	0.521	-.0343132	.0173739
v__ista17	.0172224	.0076553	2.25	0.024	.0022184	.0322265
v__ista18	-.016345	.0122416	-1.34	0.182	-.0403381	.007648
v__ista19	.0404569	.0139855	2.89	0.004	.0130458	.067868
v__ista20	-.0112482	.0097758	-1.15	0.250	-.0304084	.007912
v__ista21	.0247145	.0118417	2.09	0.037	.0015053	.0479237
v__ista22	.0137465	.0085442	1.61	0.108	-.0029999	.0304929
v__ista23	-.0062198	.0078766	-0.79	0.430	-.0216577	.0092181
v__ista24	-.0285177	.009958	-2.86	0.004	-.0480351	-.0090003
v__ista25	.0075162	.0126258	0.60	0.552	-.0172299	.0322624
v__ista26	.0178521	.0088725	2.01	0.044	.0004623	.035242
v__ista27	.032119	.0110267	2.91	0.004	.010507	.053731
v__ista28	-.0022175	.0080843	-0.27	0.784	-.0180624	.0136274
v__ista29	.0167829	.0076471	2.19	0.028	.0017948	.031771
v__ista30	.0118406	.0082745	1.43	0.152	-.0043771	.0280582
v__ista31	.028884	.0175833	1.64	0.100	-.0055786	.0633467
v__ista32	-.0025533	.0099703	-0.26	0.798	-.0220947	.016988
v__ista33	.0568223	.0107534	5.28	0.000	.0357461	.0778986
v__ista34	-.0217263	.0108916	-1.99	0.046	-.0430734	-.0003792
v__ista35	-.0135517	.018416	-0.74	0.462	-.0496464	.022543
neg	.0081021	.0108324	0.75	0.454	-.0131291	.0293332
con	.0311205	.0121618	2.56	0.011	.0072837	.0549572
pro	-.0156292	.0092412	-1.69	0.091	-.0337416	.0024833
_cons	.0386921	.0186196	2.08	0.038	.0021983	.0751858
gamma						
Incpop00	-.4169201	.0814822	-5.12	0.000	-.5766223	-.2572179
pq	-23.76212	16.88931	-1.41	0.159	-56.86457	9.340316
_cons	2.182978	3.983362	0.55	0.584	-5.624267	9.990223

Model: log Var(y|x,z) = gamma

```
. *bootstrap "regh turn00 turn96 turn92 turn88 senate v__istate v__istat1 v__istat2
v__istat3 v__istat4
> v__istat5 v__istat6 v__istat7 v__istat8 v__istat9 v__ista10 v__ista11 v__ista12
v__ista13 v__ista14 v
> _ista15 v__ista16 v__ista17 v__ista18 v__ista19 v__ista20 v__ista21 v__ista22
v__ista23 v__ista24 v__
> ista25 v__ista26 v__ista27 v__ista28 v__ista29 v__ista30 v__ista31 v__ista32
```

Replication_Log053007.log

```
v__ista33 v__ista34 v__is
> ta35 neg con pro, var(lncpop00 pq)" _b _se, reps(1000) saving(bsout1) replace bca
. regh turn00 turn96 turn92 turn88 senate neg con pro, var(lncpop00 pq)
```

```
Iteration 0: log likelihood = 316.7119
Iteration 1: log likelihood = 320.63897
Iteration 2: log likelihood = 321.33034
Iteration 3: log likelihood = 321.33084
Iteration 4: log likelihood = 321.33084
```

```
multiplicative heteroscedastic regression      Number of obs   =      128
Estimator: mle/Newton-Raphson                 LR chi2(9)      =     311.830
                                                Prob > chi2     =       0.000
                                                corr2(y,yh)    =       0.8871
                                                vwcorr2(y,yh) =       0.8708

Log Likelihood =      321.331
```

turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
mean						
turn96	.497282	.0796623	6.24	0.000	.3411467	.6534173
turn92	.4101608	.0984366	4.17	0.000	.2172287	.603093
turn88	-.1419504	.0631887	-2.25	0.025	-.2657979	-.0181029
senate	.1112602	.043517	2.56	0.011	.0259684	.196552
neg	-.0090161	.0164035	-0.55	0.583	-.0411662	.0231341
con	.0376681	.01753	2.15	0.032	.0033099	.0720262
pro	.0025164	.0123656	0.20	0.839	-.0217196	.0267525
_cons	.0672307	.0185425	3.63	0.000	.030888	.1035734
gamma						
lncpop00	-.138027	.0794015	-1.74	0.082	-.293651	.017597
pq	-50.21693	17.96438	-2.80	0.005	-85.42647	-15.0074
_cons	6.156096	4.194505	1.47	0.142	-2.064983	14.37717

Model: log Var(y|x,z) = gamma

```
. *bootstrap "regh turn00 turn96 turn92 turn88 senate neg con pro, var(lncpop00 pq)"
_b _se, reps(1000) s
> aving(bsout1) replace bca
. regh turn00 turn96 turn92 turn88 senate v__istate v__istat1 v__istat2 v__istat3
v__istat4 v__istat5 v__
> _istat6 v__istat7 v__istat8 v__istat9 v__ista10 v__ista11 v__ista12 v__ista13
v__ista14 v__ista15 v__i
> sta16 v__ista17 v__ista18 v__ista19 v__ista20 v__ista21 v__ista22 v__ista23
v__ista24 v__ista25 v__ist
> a26 v__ista27 v__ista28 v__ista29 v__ista30 v__ista31 v__ista32 v__ista33
v__ista34 v__ista35 neg con
> pro contrate candvisits, var(lncpop00 pq)
```

```
Iteration 0: log likelihood = 392.77106
Iteration 1: log likelihood = 407.61202
Iteration 2: log likelihood = 409.39609
Iteration 3: log likelihood = 409.41983
Iteration 4: log likelihood = 409.41985
```

```
multiplicative heteroscedastic regression      Number of obs   =      128
Estimator: mle/Newton-Raphson                 LR chi2(47)    =     488.008
                                                Prob > chi2     =       0.000
                                                corr2(y,yh)    =       0.9505
                                                vwcorr2(y,yh) =       0.9749

Log Likelihood =      409.420
```

turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
--------	-------	-----------	---	------	----------------------	--

Replication_Log053007.log

mean						
turn96	.7987578	.0795672	10.04	0.000	.642809	.9547065
turn92	.1829604	.1012488	1.81	0.071	-.0154835	.3814043
turn88	-.0153701	.0619694	-0.25	0.804	-.1368279	.1060878
senate	.0022407	.0593663	0.04	0.970	-.114115	.1185965
v__istate	-.0438042	.0093108	-4.70	0.000	-.0620529	-.0255554
v__istat1	-.0099772	.0067212	-1.48	0.138	-.0231504	.0031961
v__istat2	.0010371	.0092934	0.11	0.911	-.0171776	.0192518
v__istat3	.0002362	.0091236	0.03	0.979	-.0176456	.0181181
v__istat4	-.0092775	.0073637	-1.26	0.208	-.0237101	.005155
v__istat5	-.0029993	.0076765	-0.39	0.696	-.0180448	.0120463
v__istat6	-.0052367	.0105983	-0.49	0.621	-.0260089	.0155355
v__istat7	-.0573423	.0136582	-4.20	0.000	-.0841119	-.0305726
v__istat8	-.0003573	.0078945	-0.05	0.964	-.0158302	.0151156
v__istat9	-.0243819	.0085587	-2.85	0.004	-.0411566	-.0076071
v__ista10	-.0391557	.0097981	-4.00	0.000	-.0583597	-.0199516
v__ista11	.0016285	.0075896	0.21	0.830	-.0132468	.0165038
v__ista12	.0022843	.0094431	0.24	0.809	-.0162239	.0207925
v__ista13	.0194526	.0071634	2.72	0.007	.0054126	.0334926
v__ista14	.0009288	.0074868	0.12	0.901	-.0137451	.0156027
v__ista15	.0021448	.0085715	0.25	0.802	-.0146549	.0189446
v__ista16	-.0167089	.0120662	-1.38	0.166	-.0403582	.0069405
v__ista17	.0197756	.0068743	2.88	0.004	.0063021	.033249
v__ista18	-.0207111	.010734	-1.93	0.054	-.0417495	.0003272
v__ista19	.0220001	.0122127	1.80	0.072	-.0019364	.0459366
v__ista20	-.0237679	.0084401	-2.82	0.005	-.0403101	-.0072257
v__ista21	.0234228	.0111604	2.10	0.036	.0015489	.0452968
v__ista22	.0088393	.0073628	1.20	0.230	-.0055916	.0232703
v__ista23	-.0187469	.0070617	-2.65	0.008	-.0325876	-.0049062
v__ista24	-.0305545	.0087109	-3.51	0.000	-.0476275	-.0134815
v__ista25	-.0109397	.0102645	-1.07	0.287	-.0310577	.0091784
v__ista26	.0068522	.0079458	0.86	0.388	-.0087214	.0224257
v__ista27	.040215	.0100583	4.00	0.000	.0205011	.059929
v__ista28	-.0164068	.0076957	-2.13	0.033	-.03149	-.0013236
v__ista29	.0115985	.0067567	1.72	0.086	-.0016443	.0248413
v__ista30	.0184481	.0073192	2.52	0.012	.0041027	.0327935
v__ista31	.0234021	.0164141	1.43	0.154	-.0087689	.0555731
v__ista32	-.0100108	.0085141	-1.18	0.240	-.0266982	.0066766
v__ista33	.0421101	.0089894	4.68	0.000	.0244912	.059729
v__ista34	-.026755	.0098794	-2.71	0.007	-.0461183	-.0073917
v__ista35	-.0188776	.0171389	-1.10	0.271	-.0524693	.0147141
neg	-.0026041	.0092406	-0.28	0.778	-.0207153	.0155071
con	.0147551	.0107079	1.38	0.168	-.0062321	.0357423
pro	-.0133324	.0079684	-1.67	0.094	-.0289502	.0022854
contrate	.016404	.0212099	0.77	0.439	-.0251666	.0579746
candvisits	.0079691	.0012753	6.25	0.000	.0054696	.0104686
_cons	.0254208	.0163495	1.55	0.120	-.0066236	.0574652

gamma						
lnpop00	-.5549862	.0787087	-7.05	0.000	-.7092523	-.4007201
pq	-9.447867	15.75452	-0.60	0.549	-40.32616	21.43043
_cons	.1871034	3.83259	0.05	0.961	-7.324636	7.698842

Model: log Var(y|x,z) = gamma

```
. *bootstrap "regh turn00 turn96 turn92 turn88 senate v__istate v__istat1 v__istat2
v__istat3 v__istat4
> v__istat5 v__istat6 v__istat7 v__istat8 v__istat9 v__ista10 v__ista11 v__ista12
v__ista13 v__ista14 v__
> _ista15 v__ista16 v__ista17 v__ista18 v__ista19 v__ista20 v__ista21 v__ista22
v__ista23 v__ista24 v__i
> sta25 v__ista26 v__ista27 v__ista28 v__ista29 v__ista30 v__ista31 v__ista32
```

Replication_Log053007.log

```
v__ista33 v__ista34 v__ist
> a35 neg con pro contrate candvisits, var(lncpop00 pq)" _b _se, reps(1000)
saving(bsout1) replace bca
. regh turn00 turn96 turn92 turn88 senate neg con pro contrate candvisits,
var(lncpop00 pq)
```

```
Iteration 0: log likelihood = 319.47938
Iteration 1: log likelihood = 323.93108
Iteration 2: log likelihood = 324.59261
Iteration 3: log likelihood = 324.59306
Iteration 4: log likelihood = 324.59306
```

```
multiplicative heteroscedastic regression      Number of obs =      128
Estimator: mle/Newton-Raphson                 LR chi2(11) =      318.354
                                                Prob > chi2 =      0.000
                                                corr2(y,yh) =      0.8919
Log Likelihood = 324.593                       vcorr2(y,yh) =      0.8779
```

	turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
mean							
	turn96	.5039364	.0779442	6.47	0.000	.3511685	.6567043
	turn92	.374208	.0996587	3.75	0.000	.1788804	.5695355
	turn88	-.1194815	.0672673	-1.78	0.076	-.2513229	.01236
	senate	.1109534	.043331	2.56	0.010	.0260261	.1958806
	neg	-.0183179	.0162958	-1.12	0.261	-.0502571	.0136213
	con	.0338183	.0171768	1.97	0.049	.0001523	.0674843
	pro	.0037526	.0120077	0.31	0.755	-.0197821	.0272874
	contrate	.0478002	.0307575	1.55	0.120	-.0124833	.1080837
	candvisits	.0032032	.001874	1.71	0.087	-.0004698	.0068762
	_cons	.0680538	.0181532	3.75	0.000	.0324742	.1036334
gamma							
	lncpop00	-.1567568	.0794738	-1.97	0.049	-.3125226	-.000991
	pq	-47.40343	17.71777	-2.68	0.007	-82.12962	-12.67724
	_cons	5.659346	4.134601	1.37	0.171	-2.444323	13.76302

Model: log Var(y|x,z) = gamma

```
. *bootstrap "regh turn00 turn96 turn92 turn88 senate neg con pro contrate
candvisits, var(lncpop00 pq)"
> _b _se, reps(1000) saving(bsout1) replace bca
```

```
. *COMBINE NEGATIVE AND CONTRAST ADS (SEE FOOTNOTE IN OUR RESPONSE)
. gen negcon=neg+con
```

```
. xi: regress turn00 senate negcon pro
```

Source	SS	df	MS	Number of obs =	128
Model	.368452716	3	.122817572	F(3, 124) =	77.38
Residual	.196806598	124	.00158715	Prob > F =	0.0000
Total	.565259313	127	.004450861	R-squared =	0.6518
				Adj R-squared =	0.6434
				Root MSE =	.03984

	turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
	senate	.7407098	.054357	13.63	0.000	.6331221	.8482974
	negcon	.0063863	.0174146	0.37	0.714	-.0280821	.0408546
	pro	.0540553	.0254489	2.12	0.036	.0036848	.1044257

_cons | .2138928 .0220802 9.69 0.000 .1701899 .2575958

. xi: regress turn00 senate i.state negcon pro
i.state _Istate_1-37 (_Istate_1 for state==AL omitted)

Source	SS	df	MS	Number of obs =	128
Model	.517340172	39	.013265133	F(39, 88) =	24.36
Residual	.047919141	88	.000544536	Prob > F =	0.0000
Total	.565259313	127	.004450861	R-squared =	0.9152
				Adj R-squared =	0.8777
				Root MSE =	.02334

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
senate	.8627609	.0569751	15.14	0.000	.7495349 .9759869
_Istate_2	-.0412165	.0214773	-1.92	0.058	-.0838981 .0014651
_Istate_3	.0012874	.0173063	0.07	0.941	-.0331053 .0356802
_Istate_4	.0197309	.0218444	0.90	0.369	-.0236802 .063142
_Istate_5	.0915616	.0216087	4.24	0.000	.0486188 .1345044
_Istate_6	.0416459	.0169803	2.45	0.016	.0079011 .0753907
_Istate_7	.0028602	.0197191	0.15	0.885	-.0363272 .0420477
_Istate_8	.0564892	.0217479	2.60	0.011	.0132698 .0997086
_Istate_9	.025353	.0222887	1.14	0.258	-.0189411 .0696472
_Istate_10	.0378712	.021864	1.73	0.087	-.0055788 .0813213
_Istate_11	.008696	.017214	0.51	0.615	-.0255131 .0429052
_Istate_12	.0494494	.0192802	2.56	0.012	.0111341 .0877648
_Istate_13	-.0179448	.0166218	-1.08	0.283	-.0509771 .0150875
_Istate_14	.0017565	.0203205	0.09	0.931	-.0386263 .0421393
_Istate_15	.0079636	.0191095	0.42	0.678	-.0300126 .0459398
_Istate_16	.0308804	.0177632	1.74	0.086	-.0044202 .0661811
_Istate_17	.0415504	.0174243	2.38	0.019	.0069232 .0761776
_Istate_18	.0385851	.0198694	1.94	0.055	-.0009011 .0780713
_Istate_19	.0117224	.0166052	0.71	0.482	-.021277 .0447217
_Istate_20	-.0300728	.0224187	-1.34	0.183	-.0746252 .0144797
_Istate_21	.1406709	.0219576	6.41	0.000	.0970348 .1843069
_Istate_22	-.0118823	.0225681	-0.53	0.600	-.0567315 .032967
_Istate_23	.0089802	.019394	0.46	0.644	-.0295612 .0475216
_Istate_24	.0486693	.0173257	2.81	0.006	.0142382 .0831004
_Istate_25	.0328702	.0166649	1.97	0.052	-.0002478 .0659882
_Istate_26	.033342	.0214272	1.56	0.123	-.0092399 .075924
_Istate_27	.0664808	.0240138	2.77	0.007	.0187585 .1142031
_Istate_28	.06348	.0168622	3.76	0.000	.0299699 .09699
_Istate_29	-.0285038	.0215112	-1.33	0.189	-.0712528 .0142451
_Istate_30	-.0029165	.0191513	-0.15	0.879	-.0409756 .0351426
_Istate_31	.0205048	.0179915	1.14	0.258	-.0152496 .0562592
_Istate_32	-.0197906	.0167387	-1.18	0.240	-.0530553 .013474
_Istate_33	.0471242	.022665	2.08	0.041	.0020823 .0921661
_Istate_34	.0064168	.0206955	0.31	0.757	-.0347112 .0475448
_Istate_35	.101978	.0200201	5.09	0.000	.0621923 .1417636
_Istate_36	-.0032529	.018181	-0.18	0.858	-.0393838 .0328779
_Istate_37	-.0919075	.0244608	-3.76	0.000	-.1405182 -.0432968
negcon	.0262434	.0124282	2.11	0.038	.0015449 .0509418
pro	-.0085211	.0193176	-0.44	0.660	-.0469109 .0298687
_cons	.1650421	.0261839	6.30	0.000	.113007 .2170772

. xi: regress turn00 turn96 turn92 turn88 senate i.state negcon pro
i.state _Istate_1-37 (_Istate_1 for state==AL omitted)

Source	SS	df	MS	Number of obs =	128
				F(42, 85) =	46.92

Replication_Log053007.log

Model	.541888341	42	.012902103	Prob > F	=	0.0000
Residual	.023370972	85	.000274953	R-squared	=	0.9587
Total	.565259313	127	.004450861	Adj R-squared	=	0.9382
				Root MSE	=	.01658

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
turn96	.7441578	.1007656	7.39	0.000	.5438087	.9445069
turn92	.0799182	.1360794	0.59	0.559	-.1906441	.3504805
turn88	-.0368963	.0845065	-0.44	0.664	-.2049178	.1311252
senate	.2178468	.0828511	2.63	0.010	.0531167	.382577
_Istate_2	-.0396044	.0155995	-2.54	0.013	-.0706205	-.0085884
_Istate_3	-.0045553	.0124138	-0.37	0.715	-.0292372	.0201266
_Istate_4	.0059525	.0165365	0.36	0.720	-.0269264	.0388314
_Istate_5	.0173518	.0175609	0.99	0.326	-.0175639	.0522675
_Istate_6	.0032015	.0132991	0.24	0.810	-.0232406	.0296437
_Istate_7	-.0122893	.0144053	-0.85	0.396	-.040931	.0163523
_Istate_8	.0052739	.0165429	0.32	0.751	-.0276178	.0381656
_Istate_9	-.0380929	.0187085	-2.04	0.045	-.0752905	-.0008953
_Istate_10	.016321	.0158202	1.03	0.305	-.0151339	.0477758
_Istate_11	-.0185293	.0137388	-1.35	0.181	-.0458457	.0087871
_Istate_12	-.022032	.0157425	-1.40	0.165	-.0533324	.0092684
_Istate_13	-.0031752	.012685	-0.25	0.803	-.0283962	.0220459
_Istate_14	-.0093726	.0149107	-0.63	0.531	-.0390191	.0202739
_Istate_15	.0110891	.0137306	0.81	0.422	-.016211	.0383893
_Istate_16	.0068297	.0129458	0.53	0.599	-.01891	.0325695
_Istate_17	.0218423	.0129	1.69	0.094	-.0038064	.047491
_Istate_18	.0106035	.0180078	0.59	0.558	-.0252009	.0464079
_Istate_19	.0057216	.0120917	0.47	0.637	-.0183199	.0297632
_Istate_20	-.0289712	.0163004	-1.78	0.079	-.0613808	.0034384
_Istate_21	.0473203	.0186532	2.54	0.013	.0102328	.0844078
_Istate_22	-.014876	.0166149	-0.90	0.373	-.0479109	.0181589
_Istate_23	.0363674	.0143826	2.53	0.013	.007771	.0649639
_Istate_24	.010422	.0133803	0.78	0.438	-.0161816	.0370257
_Istate_25	-.0067444	.0126925	-0.53	0.597	-.0319806	.0184917
_Istate_26	-.0203582	.0165896	-1.23	0.223	-.0533427	.0126263
_Istate_27	-.0120326	.0190277	-0.63	0.529	-.0498647	.0257994
_Istate_28	.0201525	.0136051	1.48	0.142	-.0068982	.0472031
_Istate_29	.0188832	.0171512	1.10	0.274	-.0152179	.0529843
_Istate_30	-.0116108	.013766	-0.84	0.401	-.0389813	.0157598
_Istate_31	.0174515	.0131624	1.33	0.188	-.0087189	.0436218
_Istate_32	-.0005277	.0125792	-0.04	0.967	-.0255385	.024483
_Istate_33	.0241899	.0163962	1.48	0.144	-.00841	.0567899
_Istate_34	-.0065314	.0149792	-0.44	0.664	-.0363141	.0232514
_Istate_35	.0618573	.0154299	4.01	0.000	.0311785	.0925362
_Istate_36	-.0210472	.0149311	-1.41	0.162	-.0507341	.0086398
_Istate_37	-.0513623	.0197368	-2.60	0.011	-.0906043	-.0121203
negcon	.0163549	.0090357	1.81	0.074	-.0016104	.0343202
pro	-.0162498	.0138787	-1.17	0.245	-.0438443	.0113448
_cons	.0409084	.0267795	1.53	0.130	-.0123365	.0941532

. xi: regress turn00 turn96 turn92 turn88 senate negcon pro

Source	SS	df	MS	Number of obs	=	128
Model	.502367435	6	.083727906	F(6, 121)	=	161.09
Residual	.062891878	121	.000519768	Prob > F	=	0.0000
Total	.565259313	127	.004450861	R-squared	=	0.8887
				Adj R-squared	=	0.8832
				Root MSE	=	.0228

Replication_Log053007.log						
turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
turn96	.4872433	.0870721	5.60	0.000	.3148611	.6596254
turn92	.5138863	.1076684	4.77	0.000	.3007282	.7270443
turn88	-.1968009	.0670776	-2.93	0.004	-.3295988	-.0640031
senate	.1571026	.0497378	3.16	0.002	.0586336	.2555716
negcon	.0061231	.0101336	0.60	0.547	-.0139391	.0261852
pro	.0048407	.0150003	0.32	0.747	-.0248564	.0345379
_cons	.0282715	.0175912	1.61	0.111	-.006555	.063098

. xi: regress turn00 turn96 turn92 turn88 senate i.state negcon pro contrate
candvisits
i.state _Istate_1-37 (_Istate_1 for state==AL omitted)

Source	SS	df	MS	Number of obs =	128
Model	.545268606	44	.012392468	F(44, 83) =	51.45
Residual	.019990707	83	.000240852	Prob > F =	0.0000
Total	.565259313	127	.004450861	R-squared =	0.9646
				Adj R-squared =	0.9459
				Root MSE =	.01552

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
turn96	.7991179	.0969132	8.25	0.000	.6063614	.9918745
turn92	.0136486	.136422	0.10	0.921	-.2576893	.2849866
turn88	-.0136089	.0829539	-0.16	0.870	-.178601	.1513831
senate	.2096513	.0775862	2.70	0.008	.0553354	.3639672
_Istate_2	-.050475	.0149274	-3.38	0.001	-.0801651	-.020785
_Istate_3	-.0187878	.0123145	-1.53	0.131	-.0432808	.0057052
_Istate_4	-.0057373	.0158012	-0.36	0.717	-.0371653	.0256907
_Istate_5	.0126284	.0165109	0.76	0.447	-.0202112	.0454679
_Istate_6	-.009729	.0130812	-0.74	0.459	-.0357469	.016289
_Istate_7	-.0137822	.0135598	-1.02	0.312	-.0407521	.0131876
_Istate_8	-.0101435	.0165809	-0.61	0.542	-.0431223	.0228353
_Istate_9	-.0373343	.0175137	-2.13	0.036	-.0721684	-.0025003
_Istate_10	.0009085	.0154194	0.06	0.953	-.0297601	.0315771
_Istate_11	-.0306523	.0134029	-2.29	0.025	-.0573101	-.0039944
_Istate_12	-.0260702	.0148733	-1.75	0.083	-.0556526	.0035123
_Istate_13	-.0122991	.0122613	-1.00	0.319	-.0366863	.0120881
_Istate_14	-.0131404	.0140734	-0.93	0.353	-.0411319	.0148511
_Istate_15	.0016125	.0131158	0.12	0.902	-.0244743	.0276993
_Istate_16	-.0033347	.0124399	-0.27	0.789	-.0280771	.01214077
_Istate_17	.0141957	.0122488	1.16	0.250	-.0101666	.0385581
_Istate_18	.0034707	.0169832	0.20	0.839	-.0303082	.0372496
_Istate_19	.0057599	.0115275	0.50	0.619	-.0171677	.0286876
_Istate_20	-.0354752	.0153569	-2.31	0.023	-.0660194	-.0049309
_Istate_21	.0313923	.0180726	1.74	0.086	-.0045535	.067338
_Istate_22	-.0281916	.0159535	-1.77	0.081	-.0599225	.0035392
_Istate_23	.0313678	.0135379	2.32	0.023	.0044416	.0582941
_Istate_24	.0075836	.0127325	0.60	0.553	-.0177407	.032908
_Istate_25	-.0186742	.0123376	-1.51	0.134	-.0432132	.0058647
_Istate_26	-.0197878	.01553	-1.27	0.206	-.0506764	.0111008
_Istate_27	-.0196495	.018007	-1.09	0.278	-.0554646	.0161656
_Istate_28	.0113503	.0129576	0.88	0.384	-.0144219	.0371226
_Istate_29	.0184854	.0170961	1.08	0.283	-.0155179	.0524888
_Istate_30	-.0277531	.0139123	-1.99	0.049	-.0554241	-.0000821
_Istate_31	.0099007	.0125654	0.79	0.433	-.0150915	.0348929
_Istate_32	-.0005909	.0119183	-0.05	0.961	-.0242958	.0231141
_Istate_33	.0231484	.0155573	1.49	0.141	-.0077943	.0540912
_Istate_34	-.0152109	.0142947	-1.06	0.290	-.0436426	.0132207
_Istate_35	.0493187	.014825	3.33	0.001	.0198324	.078805

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_Istate_36	-.0280064	.0141771	-1.98	0.052	-.0562042	.0001913
_Istate_37	-.0597333	.0187373	-3.19	0.002	-.0970011	-.0224655
negcon	.0053183	.0089944	0.59	0.556	-.0125713	.0232078
pro	-.0157556	.0130252	-1.21	0.230	-.0416623	.0101511
contrate	.0434487	.0318612	1.36	0.176	-.019922	.1068195
candvisits	.0071045	.0021203	3.35	0.001	.0028873	.0113216
_cons	.0428965	.0257099	1.67	0.099	-.0082395	.0940325

. xi: regress turn00 turn96 turn92 turn88 senate negcon pro contrate candvisits

Source	SS	df	MS	Number of obs =	128
Model	.505435921	8	.06317949	F(8, 119) =	125.68
Residual	.059823392	119	.000502718	Prob > F =	0.0000
Total	.565259313	127	.004450861	R-squared =	0.8942
				Adj R-squared =	0.8871
				Root MSE =	.02242

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
turn96	.5029759	.0866944	5.80	0.000	.3313124 .6746395
turn92	.4838459	.1113921	4.34	0.000	.2632784 .7044134
turn88	-.191544	.0704673	-2.72	0.008	-.3310763 -.0520117
senate	.1636557	.0491283	3.33	0.001	.0663767 .2609347
negcon	-.0010418	.0104068	-0.10	0.920	-.0216483 .0195648
pro	.0044173	.0147791	0.30	0.766	-.0248468 .0336814
contrate	.0203393	.035075	0.58	0.563	-.0491128 .0897914
candvisits	.0052235	.0023094	2.26	0.026	.0006507 .0097963
_cons	.0279931	.0173032	1.62	0.108	-.0062689 .0622552

. regh turn00 senate negcon pro, var(lncpop00 pq)

Iteration 0: log likelihood = 239.12163
 Iteration 1: log likelihood = 243.3695
 Iteration 2: log likelihood = 245.39261
 Iteration 3: log likelihood = 245.39784
 Iteration 4: log likelihood = 245.39784

multiplicative heteroscedastic regression
 Estimator: mle/Newton-Raphson
 Log Likelihood = 245.398

Number of obs = 128
 LR chi2(5) = 159.964
 Prob > chi2 = 0.000
 corr2(y,yh) = 0.6490
 vwcorr2(y,yh) = 0.5584

turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
mean					
senate	.6163168	.0567456	10.86	0.000	.5050974 .7275362
negcon	.0186927	.0141521	1.32	0.187	-.0090449 .0464303
pro	.0237352	.0213977	1.11	0.267	-.0182036 .065674
_cons	.2649244	.0222596	11.90	0.000	.2212963 .3085524
gamma					
lncpop00	-.1115267	.0844315	-1.32	0.187	-.2770095 .053956
pq	-74.8501	20.58425	-3.64	0.000	-115.1945 -34.5057
_cons	13.00894	4.979239	2.61	0.009	3.249811 22.76807

Model: log Var(y|x,z) = gamma

. regh turn00 senate v__istate v__istat1 v__istat2 v__istat3 v__istat4 v__istat5

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```
v__istat6 v__istat7 v__
> _istat8 v__istat9 v__ista10 v__ista11 v__ista12 v__ista13 v__ista14 v__ista15
v__ista16 v__ista17 v__i
> sta18 v__ista19 v__ista20 v__ista21 v__ista22 v__ista23 v__ista24 v__ista25
v__ista26 v__ista27 v__ist
> a28 v__ista29 v__ista30 v__ista31 v__ista32 v__ista33 v__ista34 v__ista35 negcon
pro, var(lncpop00 pq)
```

```
Iteration 0: log likelihood = 326.18098
Iteration 1: log likelihood = 326.46232
Iteration 2: log likelihood = 328.64518
Iteration 3: log likelihood = 328.89275
Iteration 4: log likelihood = 328.89515
Iteration 5: log likelihood = 328.89515
```

```
multiplicative heteroscedastic regression      Number of obs   =      128
Estimator: mle/Newton-Raphson                 LR chi2(41)     =     326.958
                                                Prob > chi2     =       0.000
                                                corr2(y,yh)    =     0.9102
Log Likelihood =      328.895                  wcorr2(y,yh)   =     0.9047
```

turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
mean					
senate	.834388	.0704649	11.84	0.000	.6962793 .9724966
v__istate	-.0372485	.0169227	-2.20	0.028	-.0704164 -.0040805
v__istat1	.0050311	.0127428	0.39	0.693	-.0199444 .0300066
v__istat2	.0193042	.0173541	1.11	0.266	-.0147092 .0533175
v__istat3	.0903345	.0159433	5.67	0.000	.0590862 .1215827
v__istat4	.0416129	.0129084	3.22	0.001	.0163129 .066913
v__istat5	.0057168	.0159902	0.36	0.721	-.0256234 .037057
v__istat6	.0564411	.0176346	3.20	0.001	.021878 .0910043
v__istat7	.0175264	.0206022	0.85	0.395	-.0228532 .0579059
v__istat8	.0411635	.0153775	2.68	0.007	.0110241 .071303
v__istat9	.0116062	.0140559	0.83	0.409	-.0159429 .0391552
v__ista10	.0541844	.0156194	3.47	0.001	.023571 .0847979
v__ista11	-.0130061	.0134323	-0.97	0.333	-.0393329 .0133207
v__ista12	.0038451	.0165541	0.23	0.816	-.0286003 .0362906
v__ista13	.0151463	.0147127	1.03	0.303	-.0136902 .0439827
v__ista14	.0291411	.0145465	2.00	0.045	.0006304 .0576518
v__ista15	.0482978	.0153943	3.14	0.002	.0181255 .07847
v__ista16	.0410146	.0186033	2.20	0.027	.0045529 .0774764
v__ista17	.0163128	.0132032	1.24	0.217	-.009565 .0421906
v__ista18	-.0284247	.0195791	-1.45	0.147	-.066799 .0099497
v__ista19	.1411237	.0184777	7.64	0.000	.1049079 .1773394
v__ista20	-.0101872	.0163366	-0.62	0.533	-.0422064 .021832
v__ista21	-.0102252	.0184369	-0.55	0.579	-.0463608 .0259104
v__ista22	.0469942	.0130345	3.61	0.000	.021447 .0725414
v__ista23	.0344492	.0127174	2.71	0.007	.0095236 .0593749
v__ista24	.0315858	.0158726	1.99	0.047	.0004761 .0626954
v__ista25	.0570377	.0195311	2.92	0.003	.0187575 .0953179
v__ista26	.0663403	.01417	4.68	0.000	.0385676 .0941131
v__ista27	-.0307375	.0168529	-1.82	0.068	-.0637686 .0022936
v__ista28	-.0028543	.0142098	-0.20	0.841	-.0307051 .0249964
v__ista29	.0195161	.0132062	1.48	0.139	-.0063677 .0453998
v__ista30	-.0140025	.0134792	-1.04	0.299	-.0404211 .0124162
v__ista31	.049222	.0227132	2.17	0.030	.0047049 .0937392
v__ista32	.0081158	.0165859	0.49	0.625	-.024392 .0406236
v__ista33	.1015018	.0158052	6.42	0.000	.0705241 .1324795
v__ista34	.0078313	.0168197	0.47	0.641	-.0251346 .0407973
v__ista35	-.0854815	.0245949	-3.48	0.001	-.1336867 -.0372763
negcon	.021866	.0097938	2.23	0.026	.0026705 .0410616

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pro	-.0040804	.0155308	-0.26	0.793	-.0345202	.0263594
_cons	.1763466	.0297782	5.92	0.000	.1179824	.2347108

gamma						
lncpop00	-.2562104	.0854755	-3.00	0.003	-.4237393	-.0886816
pq	-3.060668	17.43135	-0.18	0.861	-37.22548	31.10414
_cons	-3.944315	3.932877	-1.00	0.316	-11.65261	3.763982

Model: log Var(y|x,z) = gamma

```
. regh turn00 turn96 turn92 turn88 senate v__istate v__istat1 v__istat2 v__istat3
v__istat4 v__istat5 v
> __istat6 v__istat7 v__istat8 v__istat9 v__ista10 v__ista11 v__ista12 v__ista13
v__ista14 v__ista15 v__
> ista16 v__ista17 v__ista18 v__ista19 v__ista20 v__ista21 v__ista22 v__ista23
v__ista24 v__ista25 v__is
> ta26 v__ista27 v__ista28 v__ista29 v__ista30 v__ista31 v__ista32 v__ista33
v__ista34 v__ista35 negcon
> pro, var(lncpop00 pq)
```

```
Iteration 0: log likelihood = 378.11277
Iteration 1: log likelihood = 389.58777
Iteration 2: log likelihood = 391.0534
Iteration 3: log likelihood = 391.07016
Iteration 4: log likelihood = 391.07017
```

multiplicative heteroscedastic regression	Number of obs	=	128
Estimator: mle/Newton-Raphson	LR chi2(44)	=	451.308
	Prob > chi2	=	0.000
	corr2(y,yh)	=	0.9452
Log Likelihood = 391.070	vwcorr2(y,yh)	=	0.9619

turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
mean					
turn96	.7578878	.0844683	8.97	0.000	.5923331 .9234426
turn92	.1448463	.1104091	1.31	0.190	-.0715516 .3612443
turn88	.0244258	.0686933	0.36	0.722	-.1102106 .1590621
senate	.0284169	.0663007	0.43	0.668	-.1015301 .1583639
v__istate	-.0379108	.0100802	-3.76	0.000	-.0576676 -.0181541
v__istat1	.0035707	.0073344	0.49	0.626	-.0108045 .0179458
v__istat2	.0098043	.0109349	0.90	0.370	-.0116278 .0312363
v__istat3	.0047993	.0109972	0.44	0.663	-.0167548 .0263535
v__istat4	.0022595	.0081793	0.28	0.782	-.0137717 .0182907
v__istat5	-.0024222	.009158	-0.26	0.791	-.0203716 .0155272
v__istat6	.0061757	.0117333	0.53	0.599	-.0168212 .0291727
v__istat7	-.0573142	.0150663	-3.80	0.000	-.0868436 -.0277848
v__istat8	.0166598	.0087562	1.90	0.057	-.0005022 .0338217
v__istat9	-.0184269	.0094033	-1.96	0.050	-.0368571 3.24e-06
v__ista10	-.0340916	.0109806	-3.10	0.002	-.0556132 -.01257
v__ista11	.0034712	.0083582	0.42	0.678	-.0129106 .0198531
v__ista12	.0054547	.0107371	0.51	0.611	-.0155897 .0264991
v__ista13	.0235814	.0083042	2.84	0.005	.0073054 .0398573
v__ista14	.010522	.0085304	1.23	0.217	-.0061972 .0272413
v__ista15	.0095179	.0099111	0.96	0.337	-.0099075 .0289433
v__ista16	-.0098541	.0132128	-0.75	0.456	-.0357506 .0160425
v__ista17	.0163218	.0076922	2.12	0.034	.0012454 .0313982
v__ista18	-.0192326	.0120605	-1.59	0.111	-.0428707 .0044055
v__ista19	.0384028	.0139072	2.76	0.006	.0111452 .0656604
v__ista20	-.012109	.0098323	-1.23	0.218	-.0313799 .0071619
v__ista21	.0262807	.0118425	2.22	0.026	.0030699 .0494916
v__ista22	.0117997	.0084421	1.40	0.162	-.0047465 .0283459

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v__ista23	-.006884	.0079289	-0.87	0.385	-.0224244	.0086563
v__ista24	-.0297683	.0099805	-2.98	0.003	-.0493297	-.0102069
v__ista25	.0064262	.012645	0.51	0.611	-.0183576	.0312099
v__ista26	.0163556	.0088616	1.85	0.065	-.0010128	.0337241
v__ista27	.0308966	.011077	2.79	0.005	.009186	.0526072
v__ista28	-.0039334	.0080363	-0.49	0.625	-.0196842	.0118174
v__ista29	.01639	.0077096	2.13	0.034	.0012794	.0315006
v__ista30	.0125485	.0083403	1.50	0.132	-.0037982	.0288952
v__ista31	.0278642	.0174295	1.60	0.110	-.0062969	.0620253
v__ista32	-.0022277	.0100154	-0.22	0.824	-.0218575	.0174021
v__ista33	.0568861	.010764	5.28	0.000	.0357891	.0779832
v__ista34	-.0221353	.0109652	-2.02	0.044	-.0436267	-.0006438
v__ista35	-.0150981	.0183748	-0.82	0.411	-.051112	.0209158
negcon	.0187404	.0056479	3.32	0.001	.0076707	.0298101
pro	-.0167093	.0092525	-1.81	0.071	-.0348439	.0014253
_cons	.0373749	.0187553	1.99	0.046	.0006151	.0741347

gamma						
lnpop00	-.4112347	.0802776	-5.12	0.000	-.5685759	-.2538936
pq	-22.39864	16.74319	-1.34	0.181	-55.21469	10.41742
_cons	1.787778	3.926268	0.46	0.649	-5.907566	9.483123

Model: log Var(y|x,z) = gamma

. regh turn00 turn96 turn92 turn88 senate negcon pro, var(lncpop00 pq)

```
Iteration 0: log likelihood = 315.92834
Iteration 1: log likelihood = 319.77671
Iteration 2: log likelihood = 320.10654
Iteration 3: log likelihood = 320.10755
Iteration 4: log likelihood = 320.10755
```

multiplicative heteroscedastic regression	Number of obs	=	128
Estimator: mle/Newton-Raphson	LR chi2(8)	=	309.383
	Prob > chi2	=	0.000
	corr2(y,yh)	=	0.8861
Log Likelihood = 320.108	vwcorr2(y,yh)	=	0.8683

	turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]

mean						
turn96		.5175221	.0790073	6.55	0.000	.3626706 .6723735
turn92		.3952326	.098948	3.99	0.000	.201298 .5891671
turn88		-.1381272	.0626233	-2.21	0.027	-.2608667 -.0153877
senate		.1084977	.0438552	2.47	0.013	.0225432 .1944523
negcon		.0132273	.0083316	1.59	0.112	-.0031024 .029557
pro		.0000662	.012388	0.01	0.996	-.0242139 .0243463
_cons		.0655328	.0188102	3.48	0.000	.0286655 .1024002

gamma						
lncpop00		-.1200424	.0787441	-1.52	0.127	-.274378 .0342932
pq		-51.02952	18.15023	-2.81	0.005	-86.60332 -15.45571
_cons		6.142664	4.208132	1.46	0.144	-2.105123 14.39045

Model: log Var(y|x,z) = gamma

```
. regh turn00 turn96 turn92 turn88 senate v__istate v__istat1 v__istat2 v__istat3
v__istat4 v__istat5 v__
> _istat6 v__istat7 v__istat8 v__istat9 v__ista10 v__ista11 v__ista12 v__ista13
v__ista14 v__ista15 v__i
> stal6 v__ista17 v__ista18 v__ista19 v__ista20 v__ista21 v__ista22 v__ista23
v__ista24 v__ista25 v__ist
```

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```
> a26 v__ista27 v__ista28 v__ista29 v__ista30 v__ista31 v__ista32 v__ista33
v__ista34 v__ista35 negcon p
> ro contrate candvisits, var(lncpop00 pq)
```

```
Iteration 0: log likelihood = 391.88451
Iteration 1: log likelihood = 406.72066
Iteration 2: log likelihood = 408.89466
Iteration 3: log likelihood = 408.8995
Iteration 4: log likelihood = 408.8995
```

```
multiplicative heteroscedastic regression      Number of obs   =      128
Estimator: mle/Newton-Raphson                 LR chi2(46)     =     486.967
                                                Prob > chi2     =       0.000
                                                corr2(y,yh)    =     0.9507
Log Likelihood = 408.899                      wcorr2(y,yh)   =     0.9748
```

turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
mean						
turn96	.8240149	.0757947	10.87	0.000	.67546	.9725697
turn92	.1642231	.0996933	1.65	0.100	-.0311723	.3596184
turn88	-.008288	.0619271	-0.13	0.894	-.1296628	.1130868
senate	-.0059936	.0591541	-0.10	0.919	-.1219334	.1099463
v__istate	-.0464754	.0089807	-5.18	0.000	-.0640773	-.0288735
v__istat1	-.0102064	.006751	-1.51	0.131	-.0234381	.0030252
v__istat2	.0000107	.0092845	0.00	0.999	-.0181865	.0182079
v__istat3	-.0010491	.0090719	-0.12	0.908	-.0188298	.0167315
v__istat4	-.0100823	.0073598	-1.37	0.171	-.0245072	.0043425
v__istat5	-.00297	.007718	-0.38	0.700	-.018097	.0121569
v__istat6	-.0067409	.0105326	-0.64	0.522	-.0273843	.0139026
v__istat7	-.0585186	.0136805	-4.28	0.000	-.0853319	-.0317053
v__istat8	-.0006266	.0079336	-0.08	0.937	-.0161762	.0149231
v__istat9	-.0261467	.0084271	-3.10	0.002	-.0426636	-.0096298
v__ista10	-.040491	.0097658	-4.15	0.000	-.0596315	-.0213504
v__ista11	.0003586	.0075327	0.05	0.962	-.0144054	.0151225
v__ista12	.0010611	.0093946	0.11	0.910	-.017352	.0194742
v__ista13	.0197635	.0072034	2.74	0.006	.0056451	.0338819
v__ista14	-.0002138	.0074367	-0.03	0.977	-.0147894	.0143617
v__ista15	.002331	.008606	0.27	0.786	-.0145364	.0191985
v__ista16	-.0179085	.0120701	-1.48	0.138	-.0415655	.0057484
v__ista17	.0191908	.0068927	2.78	0.005	.0056814	.0327001
v__ista18	-.022834	.0105815	-2.16	0.031	-.0435734	-.0020946
v__ista19	.0200227	.0121041	1.65	0.098	-.0037009	.0374663
v__ista20	-.0245731	.0084337	-2.91	0.004	-.0411028	-.0080433
v__ista21	.0247952	.0111168	2.23	0.026	.0030066	.0465837
v__ista22	.0073668	.0072544	1.02	0.310	-.0068514	.0215851
v__ista23	-.0194252	.0070684	-2.75	0.006	-.033279	-.0055714
v__ista24	-.031562	.0086909	-3.63	0.000	-.0485958	-.0145282
v__ista25	-.011978	.0102388	-1.17	0.242	-.0320457	.0080897
v__ista26	.0055581	.007892	0.70	0.481	-.0099099	.0210261
v__ista27	.0396352	.0101129	3.92	0.000	.0198143	.0594562
v__ista28	-.0177218	.0076331	-2.32	0.020	-.0326824	-.0027611
v__ista29	.0114311	.0067928	1.68	0.092	-.0018824	.0247447
v__ista30	.019278	.0073278	2.63	0.009	.0049159	.0336402
v__ista31	.0225587	.0163956	1.38	0.169	-.0095761	.0546934
v__ista32	-.0097184	.008528	-1.14	0.254	-.0264331	.0069962
v__ista33	.0418963	.0090067	4.65	0.000	.0242435	.0595491
v__ista34	-.0271337	.0099269	-2.73	0.006	-.04659	-.0076773
v__ista35	-.0197565	.0171494	-1.15	0.249	-.0533687	.0138557
negcon	.0051957	.0052454	0.99	0.322	-.0050851	.0154765
pro	-.0139124	.0079953	-1.74	0.082	-.0295829	.0017581
contrate	.016232	.0213426	0.76	0.447	-.0255987	.0580628

Replication_Log053007.log
 Total | .565259313 127 .004450861 Root MSE = .03994

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
senate	.7556237	.0535647	14.11	0.000	.6496124	.861635
post_toneall	2.89e-06	6.03e-07	4.78	0.000	1.69e-06	4.08e-06
_cons	.2128855	.0221145	9.63	0.000	.1691182	.2566527

. xi: regress turn00 senate i.state post_toneall
 i.state _Istate_1-37 (_Istate_1 for state==AL omitted)

Source	SS	df	MS	Number of obs = 128	
Model	.51674446	38	.013598538	F(38, 89) =	24.95
Residual	.048514854	89	.000545111	Prob > F =	0.0000
Total	.565259313	127	.004450861	R-squared =	0.9142
				Adj R-squared =	0.8775
				Root MSE =	.02335

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
senate	.8680394	.0567037	15.31	0.000	.7553704	.9807085
_Istate_2	-.0387569	.0213844	-1.81	0.073	-.0812473	.0037335
_Istate_3	.0028256	.0172067	0.16	0.870	-.0313638	.0370151
_Istate_4	.019055	.0218189	0.87	0.385	-.0242987	.0624087
_Istate_5	.0974243	.021409	4.55	0.000	.0548852	.1399634
_Istate_6	.0437972	.0168131	2.60	0.011	.01039	.0772045
_Istate_7	.0050099	.0197037	0.25	0.800	-.0341409	.0441607
_Istate_8	.0558765	.0214824	2.60	0.011	.0131914	.0985616
_Istate_9	.0239496	.0219958	1.09	0.279	-.0197556	.0676548
_Istate_10	.035942	.0217238	1.65	0.102	-.0072227	.0791067
_Istate_11	.0075275	.0171069	0.44	0.661	-.0264634	.0415185
_Istate_12	.0515436	.0191499	2.69	0.008	.0134933	.089594
_Istate_13	-.0160939	.0165743	-0.97	0.334	-.0490266	.0168388
_Istate_14	.0007372	.0198064	0.04	0.970	-.0386178	.0400921
_Istate_15	.0101156	.0190906	0.53	0.598	-.0278171	.0480483
_Istate_16	.0307942	.017652	1.74	0.085	-.0042799	.0658683
_Istate_17	.0419464	.0173967	2.41	0.018	.0073795	.0765132
_Istate_18	.0406447	.0198197	2.05	0.043	.0012634	.080026
_Istate_19	.0149946	.0165181	0.91	0.366	-.0178265	.0478158
_Istate_20	-.0300997	.0223885	-1.34	0.182	-.0745852	.0143859
_Istate_21	.1400875	.0214076	6.54	0.000	.097551	.182624
_Istate_22	-.0067624	.0221509	-0.31	0.761	-.0507757	.037251
_Istate_23	.0084146	.0193654	0.43	0.665	-.0300639	.0468932
_Istate_24	.0513922	.0171551	3.00	0.004	.0173054	.085479
_Istate_25	.0343621	.0166227	2.07	0.042	.0013332	.0673911
_Istate_26	.0347048	.0214295	1.62	0.109	-.007875	.0772847
_Istate_27	.0629426	.0235704	2.67	0.009	.0161087	.1097765
_Istate_28	.066106	.0167346	3.95	0.000	.0328547	.0993573
_Istate_29	-.0242054	.0213907	-1.13	0.261	-.0667082	.0182975
_Istate_30	-.001179	.0191403	-0.06	0.951	-.0392104	.0368524
_Istate_31	.0233524	.0180084	1.30	0.198	-.0124299	.0591348
_Istate_32	-.0150417	.0166489	-0.90	0.369	-.0481228	.0180394
_Istate_33	.0478029	.0221229	2.16	0.033	.0038451	.0917606
_Istate_34	.0049682	.0204208	0.24	0.808	-.0356075	.0455439
_Istate_35	.0970173	.0195468	4.96	0.000	.0581782	.1358564
_Istate_36	-.0009667	.0181318	-0.05	0.958	-.0369942	.0350609
_Istate_37	-.0923893	.024435	-3.78	0.000	-.1409412	-.0438374
post_toneall	1.48e-06	4.61e-07	3.20	0.002	5.61e-07	2.39e-06
_cons	.1592352	.0258203	6.17	0.000	.1079308	.2105395

Replication_Log053007.log

```
. xi: regress turn00 turn96 turn92 turn88 senate i.state post_toneall
i.state      _Istate_1-37      (_Istate_1 for state==AL omitted)
```

Source	SS	df	MS	Number of obs =	128
Model	.541245968	41	.013201121	F(41, 86) =	47.28
Residual	.024013345	86	.000279225	Prob > F =	0.0000
Total	.565259313	127	.004450861	R-squared =	0.9575
				Adj R-squared =	0.9373
				Root MSE =	.01671

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
turn96	.7425048	.1015086	7.31	0.000	.5407124	.9442973
turn92	.0953153	.1373687	0.69	0.490	-.1777645	.3683952
turn88	-.0534088	.0845274	-0.63	0.529	-.2214436	.1146261
senate	.2259399	.0835156	2.71	0.008	.0599162	.3919635
_Istate_2	-.0369352	.0156208	-2.36	0.020	-.0679884	-.0058821
_Istate_3	-.0052368	.0124425	-0.42	0.675	-.0299717	.0194981
_Istate_4	.0060316	.0166552	0.36	0.718	-.0270778	.039141
_Istate_5	.0206524	.0177385	1.16	0.248	-.0146106	.0559153
_Istate_6	.006111	.0132664	0.46	0.646	-.0202617	.0324836
_Istate_7	-.0114925	.0144972	-0.79	0.430	-.0403119	.0173269
_Istate_8	.0031796	.0165895	0.19	0.848	-.0297992	.0361584
_Istate_9	-.0391171	.0187851	-2.08	0.040	-.0764606	-.0017736
_Istate_10	.0147194	.0158616	0.93	0.356	-.0168124	.0462513
_Istate_11	-.0192817	.0138104	-1.40	0.166	-.0467359	.0081724
_Istate_12	-.0193801	.0157434	-1.23	0.222	-.050677	.0119169
_Istate_13	-.0012743	.0127193	-0.10	0.920	-.0265595	.0240109
_Istate_14	-.0120071	.014699	-0.82	0.416	-.0412277	.0172136
_Istate_15	.0124257	.0138013	0.90	0.370	-.0150104	.0398618
_Istate_16	.0064406	.0129792	0.50	0.621	-.0193612	.0322425
_Istate_17	.0224766	.0129751	1.73	0.087	-.0033171	.0482702
_Istate_18	.0144794	.017965	0.81	0.422	-.021234	.0501927
_Istate_19	.006526	.0120943	0.54	0.591	-.0175167	.0305687
_Istate_20	-.0294019	.0164007	-1.79	0.077	-.0620054	.0032017
_Istate_21	.0444201	.0187027	2.38	0.020	.0072404	.0815999
_Istate_22	-.0126478	.0163881	-0.77	0.442	-.0452262	.0199306
_Istate_23	.034919	.014437	2.42	0.018	.0062191	.0636189
_Istate_24	.0107696	.0134318	0.80	0.425	-.015932	.0374711
_Istate_25	-.0061841	.0127867	-0.48	0.630	-.0316033	.0192351
_Istate_26	-.0194271	.0167549	-1.16	0.249	-.0527347	.0138804
_Istate_27	-.0159088	.0189155	-0.84	0.403	-.0535116	.021694
_Istate_28	.0217409	.0136352	1.59	0.115	-.0053651	.0488468
_Istate_29	.0195628	.0170085	1.15	0.253	-.0142489	.0533745
_Istate_30	-.0105386	.0138602	-0.76	0.449	-.0380917	.0170146
_Istate_31	.0197064	.0132303	1.49	0.140	-.0065947	.0460074
_Istate_32	.0019119	.0125127	0.15	0.879	-.0229625	.0267863
_Istate_33	.0214835	.0162353	1.32	0.189	-.0107913	.0537582
_Istate_34	-.0085311	.0148935	-0.57	0.568	-.0381383	.0210762
_Istate_35	.0576341	.0152682	3.77	0.000	.0272819	.0879863
_Istate_36	-.0189291	.0149569	-1.27	0.209	-.0486625	.0108043
_Istate_37	-.0526744	.019848	-2.65	0.009	-.092131	-.0132179
post_toneall	4.13e-07	3.64e-07	1.13	0.260	-3.11e-07	1.14e-06
_cons	.0354573	.0267886	1.32	0.189	-.0177967	.0887113

```
. xi: regress turn00 turn96 turn92 turn88 senate post_toneall
```

Source	SS	df	MS	Number of obs =	128
Model	.501833445	5	.100366689	F(5, 122) =	193.06
				Prob > F =	0.0000

Replication_Log053007.log

Residual		.063425868	122	.000519884	R-squared	=	0.8878
Total		.565259313	127	.004450861	Adj R-squared	=	0.8832
					Root MSE	=	.0228

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
turn96	.4931839	.0869885	5.67	0.000	.3209815	.6653864
turn92	.5156612	.1076282	4.79	0.000	.3026004	.7287221
turn88	-.199651	.0669742	-2.98	0.003	-.332233	-.067069
senate	.1541612	.0499696	3.09	0.003	.0552414	.253081
post_toneall	5.20e-07	3.76e-07	1.38	0.170	-2.25e-07	1.26e-06
_cons	.0282562	.0174218	1.62	0.107	-.006232	.0627445

. xi: regress turn00 turn96 turn92 turn88 senate i.state post_toneall contrate candvisits

i.state _Istate_1-37 (_Istate_1 for state==AL omitted)

Source	SS	df	MS	Number of obs = 128	
Model	.54497104	43	.012673745	F(43, 84)	= 52.47
Residual	.020288273	84	.000241527	Prob > F	= 0.0000
Total	.565259313	127	.004450861	R-squared	= 0.9641
				Adj R-squared	= 0.9457
				Root MSE	= .01554

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
turn96	.7995185	.0970431	8.24	0.000	.6065377	.9924992
turn92	.0149775	.1366097	0.11	0.913	-.2566858	.2866408
turn88	-.0196473	.0827061	-0.24	0.813	-.1841175	.1448229
senate	.2168842	.0777822	2.79	0.007	.0622058	.3715625
_Istate_2	-.0491915	.0149028	-3.30	0.001	-.0788274	-.0195556
_Istate_3	-.0210438	.0123311	-1.71	0.092	-.0455656	.0034779
_Istate_4	-.0062855	.015812	-0.40	0.692	-.0377293	.0251584
_Istate_5	.0132014	.0166204	0.79	0.429	-.0198501	.046253
_Istate_6	-.0081596	.0130276	-0.63	0.533	-.0340664	.0177472
_Istate_7	-.0141681	.0135713	-1.04	0.299	-.0411562	.01282
_Istate_8	-.0134061	.01653	-0.81	0.420	-.0462779	.0194657
_Istate_9	-.0390497	.017472	-2.23	0.028	-.0737947	-.0043048
_Istate_10	-.0010642	.015322	-0.07	0.945	-.0315336	.0294053
_Istate_11	-.0320052	.0133666	-2.39	0.019	-.058586	-.0054243
_Istate_12	-.0243881	.0148224	-1.65	0.104	-.0538641	.0050879
_Istate_13	-.0119191	.0122634	-0.97	0.334	-.0363062	.012468
_Istate_14	-.0166813	.0137787	-1.21	0.229	-.0440817	.010719
_Istate_15	.001679	.013141	0.13	0.899	-.0244534	.0278113
_Istate_16	-.0044016	.0124204	-0.35	0.724	-.029101	.0202977
_Istate_17	.0139499	.0122625	1.14	0.259	-.0104354	.0383352
_Istate_18	.0057397	.0168926	0.34	0.735	-.027853	.0393325
_Istate_19	.0042872	.0114709	0.37	0.710	-.0185239	.0270984
_Istate_20	-.036497	.015361	-2.38	0.020	-.067044	-.0059499
_Istate_21	.0274478	.018018	1.52	0.131	-.0083829	.0632785
_Istate_22	-.0295164	.0158426	-1.86	0.066	-.0610211	.0019884
_Istate_23	.029922	.0134919	2.22	0.029	.0030919	.0567521
_Istate_24	.0057144	.0127425	0.45	0.655	-.0196255	.0310542
_Istate_25	-.0193168	.0123903	-1.56	0.123	-.0439563	.0053227
_Istate_26	-.0190649	.0155933	-1.22	0.225	-.0500739	.0119442
_Istate_27	-.0227588	.0177956	-1.28	0.204	-.0581472	.0126296
_Istate_28	.0110103	.0129802	0.85	0.399	-.0148024	.0368229
_Istate_29	.0157484	.0168362	0.94	0.352	-.0177321	.049229
_Istate_30	-.0276821	.0139474	-1.98	0.050	-.055418	.0000539
_Istate_31	.0106925	.0126204	0.85	0.399	-.0144046	.0357897

Replication_Log053007.log

```
. regh turn00 senate v__istate v__istat1 v__istat2 v__istat3 v__istat4 v__istat5
v__istat6 v__istat7 v__
> _istat8 v__istat9 v__ista10 v__ista11 v__ista12 v__ista13 v__ista14 v__ista15
v__ista16 v__ista17 v__i
> sta18 v__ista19 v__ista20 v__ista21 v__ista22 v__ista23 v__ista24 v__ista25
v__ista26 v__ista27 v__ist
> a28 v__ista29 v__ista30 v__ista31 v__ista32 v__ista33 v__ista34 v__ista35
post_toneall, var(lncpop00 p
> q)
```

```
Iteration 0: log likelihood = 325.28368
Iteration 1: log likelihood = 325.56495
Iteration 2: log likelihood = 328.4831
Iteration 3: log likelihood = 328.77711
Iteration 4: log likelihood = 328.77907
Iteration 5: log likelihood = 328.77907
```

```
multiplicative heteroscedastic regression      Number of obs   =      128
Estimator: mle/Newton-Raphson                 LR chi2(40)     =     326.726
                                                Prob > chi2     =      0.000
                                                corr2(y,yh)    =     0.9084
Log Likelihood =    328.779                    vcorr2(y,yh)   =     0.9023
```

turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
mean						
senate	.8249412	.0678834	12.15	0.000	.6918921	.9579902
v__istate	-.0361768	.0167638	-2.16	0.031	-.0690332	-.0033204
v__istat1	.0068423	.0124946	0.55	0.584	-.0176466	.0313312
v__istat2	.0202332	.0172633	1.17	0.241	-.0136021	.0540686
v__istat3	.0941501	.0158935	5.92	0.000	.0629993	.1253008
v__istat4	.0419658	.0127442	3.29	0.001	.0169876	.0669439
v__istat5	.0048674	.0157527	0.31	0.757	-.0260073	.0357421
v__istat6	.0567611	.0173995	3.26	0.001	.0226587	.0908634
v__istat7	.0160995	.020316	0.79	0.428	-.0237191	.0559181
v__istat8	.0395335	.0150906	2.62	0.009	.0099565	.0691105
v__istat9	.0090845	.0135666	0.67	0.503	-.0175055	.0356745
v__ista10	.0550522	.0154264	3.57	0.000	.0248169	.0852874
v__ista11	-.0121615	.0132615	-0.92	0.359	-.0381536	.0138306
v__ista12	.0043271	.0158233	0.27	0.784	-.0266861	.0353403
v__ista13	.0174075	.0145716	1.19	0.232	-.0111524	.0459673
v__ista14	.0293771	.0143073	2.05	0.040	.0013353	.057419
v__ista15	.0472016	.0153509	3.07	0.002	.0171144	.0772888
v__ista16	.0411352	.0183364	2.24	0.025	.0051966	.0770739
v__ista17	.0193161	.0129327	1.49	0.135	-.0060316	.0446637
v__ista18	-.0275201	.0193736	-1.42	0.155	-.0654917	.0104515
v__ista19	.1410324	.0180132	7.83	0.000	.1057272	.1763376
v__ista20	-.0052986	.015748	-0.34	0.737	-.0361641	.0255668
v__ista21	-.0132736	.018016	-0.74	0.461	-.0485844	.0220372
v__ista22	.0500158	.0127459	3.92	0.000	.0250342	.0749973
v__ista23	.0354058	.0125743	2.82	0.005	.0107605	.060051
v__ista24	.03197	.0157125	2.03	0.042	.0011741	.0627659
v__ista25	.0531478	.0195529	2.72	0.007	.0148248	.0914708
v__ista26	.0660413	.0137709	4.80	0.000	.0390507	.0930318
v__ista27	-.0272593	.016587	-1.64	0.100	-.0597693	.0052506
v__ista28	-.0017607	.0140715	-0.13	0.900	-.0293403	.025819
v__ista29	.0214185	.013105	1.63	0.102	-.0042668	.0471039
v__ista30	-.010714	.01326	-0.81	0.419	-.0367032	.0152752
v__ista31	.0512784	.022615	2.27	0.023	.0069537	.0956031
v__ista32	.0076258	.016193	0.47	0.638	-.0241119	.0393635
v__ista33	.0978674	.0155593	6.29	0.000	.0673717	.1283631

Replication_Log053007.log						
v__ista34	.007929	.016461	0.48	0.630	-.024334	.040192
v__ista35	-.0830972	.0242814	-3.42	0.001	-.1306878	-.0355067
post_toneall	1.41e-06	3.71e-07	3.80	0.000	6.84e-07	2.14e-06
_cons	.1771765	.0287651	6.16	0.000	.1207979	.233555

gamma						
lncpop00	-.255072	.083256	-3.06	0.002	-.4182507	-.0918933
pq	-6.651225	16.29684	-0.41	0.683	-38.59243	25.28999
_cons	-3.081619	3.669166	-0.84	0.401	-10.27305	4.109815

Model: log Var(y|x,z) = gamma

```
. regh turn00 turn96 turn92 turn88 senate v__istate v__istat1 v__istat2 v__istat3
v__istat4 v__istat5 v
> __istat6 v__istat7 v__istat8 v__istat9 v__ista10 v__ista11 v__ista12 v__ista13
v__ista14 v__ista15 v__
> ista16 v__ista17 v__ista18 v__ista19 v__ista20 v__ista21 v__ista22 v__ista23
v__ista24 v__ista25 v__is
> ta26 v__ista27 v__ista28 v__ista29 v__ista30 v__ista31 v__ista32 v__ista33
v__ista34 v__ista35 post_to
> neall, var(lncpop00 pq)
```

```
Iteration 0: log likelihood = 375.91546
Iteration 1: log likelihood = 387.03578
Iteration 2: log likelihood = 388.05266
Iteration 3: log likelihood = 388.07079
Iteration 4: log likelihood = 388.07082
```

```
multiplicative heteroscedastic regression      Number of obs   =      128
Estimator: mle/Newton-Raphson                 LR chi2(43)     =     445.310
                                                Prob > chi2     =      0.000
                                                corr2(y,yh)    =      0.9445
Log Likelihood = 388.071                       vcorr2(y,yh)   =      0.9594
```

turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
mean					
turn96	.7577488	.0860748	8.80	0.000	.5890452 .9264524
turn92	.133886	.1123648	1.19	0.233	-.086345 .3541171
turn88	.0179026	.0706643	0.25	0.800	-.1205969 .1564021
senate	.0437181	.0673056	0.65	0.516	-.0881985 .1756346
v__istate	-.0363905	.0103312	-3.52	0.000	-.0566393 -.0161417
v__istat1	.0023161	.0074305	0.31	0.755	-.0122474 .0168796
v__istat2	.0105088	.011276	0.93	0.351	-.0115919 .0326094
v__istat3	.0089389	.0113436	0.79	0.431	-.0132941 .0311719
v__istat4	.00419	.0083867	0.50	0.617	-.0122476 .0206276
v__istat5	-.0049391	.0093189	-0.53	0.596	-.0232038 .0133256
v__istat6	.0035424	.0119032	0.30	0.766	-.0197874 .0268721
v__istat7	-.0595001	.0152487	-3.90	0.000	-.0893871 -.0296132
v__istat8	.0142634	.0089601	1.59	0.111	-.0032981 .031825
v__istat9	-.0227337	.0094865	-2.40	0.017	-.0413269 -.0041404
v__ista10	-.0302448	.0111249	-2.72	0.007	-.0520491 -.0084404
v__ista11	.0040762	.0085498	0.48	0.634	-.0126811 .0208335
v__ista12	.0006308	.0104776	0.06	0.952	-.0199049 .0211665
v__ista13	.0251333	.0085447	2.94	0.003	.0083859 .0418806
v__ista14	.0096195	.0086717	1.11	0.267	-.0073768 .0266158
v__ista15	.0105146	.0102434	1.03	0.305	-.0095621 .0305914
v__ista16	-.0070396	.0134386	-0.52	0.600	-.0333788 .0192997
v__ista17	.0160535	.0077431	2.07	0.038	.0008773 .0312297
v__ista18	-.0213069	.0122568	-1.74	0.082	-.0453298 .0027159
v__ista19	.0357245	.0141143	2.53	0.011	.0080609 .0633881
v__ista20	-.0104449	.009833	-1.06	0.288	-.0297173 .0088274

Replication_Log053007.log

```
> a26 v__ista27 v__ista28 v__ista29 v__ista30 v__ista31 v__ista32 v__ista33
v__ista34 v__ista35 post_ton
> eall contrate candvisits, var(lncpop00 pq)
```

```
Iteration 0: log likelihood = 389.21637
Iteration 1: log likelihood = 395.92613
Iteration 2: log likelihood = 407.07545
Iteration 3: log likelihood = 407.25672
Iteration 4: log likelihood = 407.25748
Iteration 5: log likelihood = 407.25748
```

```
multiplicative heteroscedastic regression      Number of obs =      128
Estimator: mle/Newton-Raphson                 LR chi2(45)      =    483.683
                                                Prob > chi2      =      0.000
                                                corr2(y,yh)     =      0.9498
Log Likelihood =    407.257                    vwcorr2(y,yh)  =      0.9739
```

turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
mean					
turn96	.8257557	.0765036	10.79	0.000	.6758113 .9757001
turn92	.1542914	.1004672	1.54	0.125	-.0426207 .3512034
turn88	-.0113495	.0625412	-0.18	0.856	-.133928 .1112291
senate	.0067079	.059778	0.11	0.911	-.1104548 .1238706
v__istate	-.045972	.0090656	-5.07	0.000	-.0637402 -.0282037
v__istat1	-.0117476	.0067098	-1.75	0.080	-.0248986 .0014034
v__istat2	.0006703	.0093836	0.07	0.943	-.0177213 .0190619
v__istat3	.0000165	.0092125	0.00	0.999	-.0180396 .0180727
v__istat4	-.0094082	.0074316	-1.27	0.206	-.0239739 .0051576
v__istat5	-.0044879	.0077238	-0.58	0.561	-.0196263 .0106506
v__istat6	-.0089814	.0105419	-0.85	0.394	-.0296432 .0116804
v__istat7	-.0629219	.0137614	-4.57	0.000	-.0898938 -.0359501
v__istat8	-.002218	.0078318	-0.28	0.777	-.0175681 .0131321
v__istat9	-.0297058	.0081916	-3.63	0.000	-.045761 -.0136507
v__ista10	-.0384192	.0098243	-3.91	0.000	-.0576744 -.0191639
v__ista11	-.0000265	.0076123	-0.00	0.997	-.0149463 .0148933
v__ista12	-.0043492	.0090237	-0.48	0.630	-.0220353 .0133368
v__ista13	.0206621	.0072816	2.84	0.005	.0063904 .0349337
v__ista14	-.0026955	.0074661	-0.36	0.718	-.0173288 .0119379
v__ista15	.001029	.0088273	0.12	0.907	-.0162722 .0183302
v__ista16	-.015719	.0121381	-1.30	0.195	-.0395092 .0080711
v__ista17	.0171278	.0068617	2.50	0.013	.0036791 .0305765
v__ista18	-.0253352	.0106002	-2.39	0.017	-.0461112 -.0045592
v__ista19	.0162343	.0120704	1.34	0.179	-.0074232 .0398918
v__ista20	-.0271923	.0083913	-3.24	0.001	-.0436391 -.0107456
v__ista21	.0227169	.0111336	2.04	0.041	.0008954 .0445385
v__ista22	.00558	.0072636	0.77	0.442	-.0086564 .0198165
v__ista23	-.019978	.0071151	-2.81	0.005	-.0339233 -.0060327
v__ista24	-.0299737	.0087708	-3.42	0.001	-.0471643 -.0127832
v__ista25	-.0149428	.0102018	-1.46	0.143	-.0349381 .0050524
v__ista26	.0036891	.007902	0.47	0.641	-.0117986 .0191768
v__ista27	.0368456	.0100893	3.65	0.000	.0170709 .0566204
v__ista28	-.0168166	.0076631	-2.19	0.028	-.0318361 -.0017971
v__ista29	.0126827	.0068636	1.85	0.065	-.0007697 .0261351
v__ista30	.0188744	.0073378	2.57	0.010	.0044926 .0332562
v__ista31	.0186297	.0165781	1.12	0.261	-.0138627 .0511221
v__ista32	-.0136079	.0084746	-1.61	0.108	-.0302178 .0030019
v__ista33	.0392425	.0088973	4.41	0.000	.021804 .0566809
v__ista34	-.028887	.0099813	-2.89	0.004	-.0484501 -.009324
v__ista35	-.0222297	.0172796	-1.29	0.198	-.0560972 .0116377
post_toneall	-5.42e-08	2.31e-07	-0.23	0.815	-5.07e-07 3.98e-07
contrate	.0139118	.0218302	0.64	0.524	-.0288745 .0566982

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toneallp	4.77e-07	1.29e-07	3.69	0.000	2.21e-07	7.33e-07
_cons	.2093672	.0234246	8.94	0.000	.1630071	.2557273

. xi: regress turn00 senate i.state toneallp
i.state _Istate_1-37 (_Istate_1 for state==AL omitted)

Source	SS	df	MS	Number of obs =	128
Model	.514471652	38	.013538728	F(38, 89) =	23.73
Residual	.050787662	89	.000570648	Prob > F =	0.0000
-----				R-squared =	0.9102
-----				Adj R-squared =	0.8718
Total	.565259313	127	.004450861	Root MSE =	.02389

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
senate	.8647831	.0579939	14.91	0.000	.7495505 .9800158
_Istate_2	-.0415554	.0219646	-1.89	0.062	-.0851986 .0020879
_Istate_3	.0013389	.0175981	0.08	0.940	-.0336283 .036306
_Istate_4	.0228011	.0222745	1.02	0.309	-.0214577 .06706
_Istate_5	.0981945	.0219265	4.48	0.000	.0546271 .141762
_Istate_6	.0463452	.0171774	2.70	0.008	.0122142 .0804763
_Istate_7	.0035309	.0201948	0.17	0.862	-.0365958 .0436575
_Istate_8	.0516291	.0220892	2.34	0.022	.0077383 .0955198
_Istate_9	.0265381	.0224913	1.18	0.241	-.0181517 .0712279
_Istate_10	.0369725	.0223958	1.65	0.102	-.0075276 .0814725
_Istate_11	.0064162	.0175923	0.36	0.716	-.0285392 .0413717
_Istate_12	.053256	.0195788	2.72	0.008	.0143533 .0921586
_Istate_13	-.0167655	.0170374	-0.98	0.328	-.0506184 .0170875
_Istate_14	.0025871	.0202453	0.13	0.899	-.0376399 .0428142
_Istate_15	.0083705	.0195687	0.43	0.670	-.0305121 .0472531
_Istate_16	.0306764	.0183902	1.67	0.099	-.0058645 .0672173
_Istate_17	.0425733	.0179538	2.37	0.020	.0068995 .0782471
_Istate_18	.0381499	.0202514	1.88	0.063	-.0020891 .078389
_Istate_19	.0109217	.0170521	0.64	0.524	-.0229605 .0448039
_Istate_20	-.0313162	.0229066	-1.37	0.175	-.0768311 .0141986
_Istate_21	.1438801	.0218348	6.59	0.000	.1004949 .1872654
_Istate_22	-.003951	.0227474	-0.17	0.863	-.0491496 .0412475
_Istate_23	.0089057	.0198126	0.45	0.654	-.0304615 .048273
_Istate_24	.0486463	.0176933	2.75	0.007	.0134901 .0838025
_Istate_25	.0321766	.0171575	1.88	0.064	-.0019149 .0662681
_Istate_26	.0317696	.0218829	1.45	0.150	-.0117111 .0752504
_Istate_27	.0675708	.0240317	2.81	0.006	.0198203 .1153213
_Istate_28	.0645046	.0173892	3.71	0.000	.0299527 .0990565
_Istate_29	-.0291781	.0220769	-1.32	0.190	-.0730445 .0146883
_Istate_30	-.0036212	.0195463	-0.19	0.853	-.0424593 .0352168
_Istate_31	.0205467	.0183726	1.12	0.266	-.0159593 .0570528
_Istate_32	-.0185064	.0171331	-1.08	0.283	-.0525494 .0155367
_Istate_33	.0504007	.0225996	2.23	0.028	.0054957 .0953057
_Istate_34	.0111291	.0206858	0.54	0.592	-.0299732 .0522315
_Istate_35	.0986172	.0200289	4.92	0.000	.0588201 .1384142
_Istate_36	-.0030172	.0186958	-0.16	0.872	-.0401654 .0341311
_Istate_37	-.0922155	.0250066	-3.69	0.000	-.1419031 -.042528
toneallp	2.37e-07	9.83e-08	2.41	0.018	4.20e-08 4.32e-07
_cons	.1635791	.0263353	6.21	0.000	.1112515 .2159068

. xi: regress turn00 turn96 turn92 turn88 senate i.state toneallp
i.state _Istate_1-37 (_Istate_1 for state==AL omitted)

Source	SS	df	MS	Number of obs =	128
-----				F(41, 86) =	46.63

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Model	.540926507	41	.013193329	Prob > F	=	0.0000
Residual	.024332806	86	.00028294	R-squared	=	0.9570
Total	.565259313	127	.004450861	Adj R-squared	=	0.9364
				Root MSE	=	.01682

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
turn96	.7488234	.1020168	7.34	0.000	.5460206	.9516261
turn92	.123403	.139504	0.88	0.379	-.1539218	.4007279
turn88	-.061493	.086454	-0.71	0.479	-.2333579	.1103719
senate	.2041138	.0825583	2.47	0.015	.0399933	.3682344
_Istate_2	-.0363935	.0158632	-2.29	0.024	-.0679285	-.0048584
_Istate_3	-.0056379	.0125235	-0.45	0.654	-.0305338	.0192581
_Istate_4	.0073965	.0167327	0.44	0.660	-.0258669	.04066
_Istate_5	.0187843	.0177824	1.06	0.294	-.016566	.0541346
_Istate_6	.0074288	.0133652	0.56	0.580	-.0191403	.0339979
_Istate_7	-.0112917	.0146216	-0.77	0.442	-.0403584	.017775
_Istate_8	.001509	.0166619	0.09	0.928	-.0316139	.0346318
_Istate_9	-.0388493	.0189672	-2.05	0.044	-.0765549	-.0011437
_Istate_10	.0157609	.0161044	0.98	0.330	-.0162537	.0477754
_Istate_11	-.0187688	.014045	-1.34	0.185	-.0466894	.0091517
_Istate_12	-.0203042	.0158296	-1.28	0.203	-.0517723	.011164
_Istate_13	.0004592	.0129451	0.04	0.972	-.0252748	.0261932
_Istate_14	-.0108599	.014802	-0.73	0.465	-.0402853	.0185654
_Istate_15	.0128528	.0139492	0.92	0.359	-.0148774	.040583
_Istate_16	.007528	.0133057	0.57	0.573	-.0189228	.0339787
_Istate_17	.0237656	.0132247	1.80	0.076	-.0025243	.0500555
_Istate_18	.0129595	.0180517	0.72	0.475	-.0229261	.0488452
_Istate_19	.0064331	.0123514	0.52	0.604	-.0181206	.0309869
_Istate_20	-.0291597	.0165387	-1.76	0.081	-.0620377	.0037182
_Istate_21	.0425746	.0188393	2.26	0.026	.0051234	.0800259
_Istate_22	-.0097009	.0166165	-0.58	0.561	-.0427334	.0233316
_Istate_23	.0361047	.0144991	2.49	0.015	.0072815	.0649279
_Istate_24	.0101706	.013597	0.75	0.456	-.0168593	.0372005
_Istate_25	-.0067411	.0129231	-0.52	0.603	-.0324313	.0189491
_Istate_26	-.0226335	.0166855	-1.36	0.178	-.0558032	.0105362
_Istate_27	-.0152129	.0190442	-0.80	0.427	-.0530715	.0226457
_Istate_28	.0220214	.0139366	1.58	0.118	-.0056836	.0497263
_Istate_29	.0216742	.017455	1.24	0.218	-.0130252	.0563737
_Istate_30	-.0113565	.0139345	-0.81	0.417	-.0390573	.0163444
_Istate_31	.0183872	.013265	1.39	0.169	-.0079827	.0447571
_Istate_32	.0028153	.0127906	0.22	0.826	-.0226117	.0282422
_Istate_33	.0212592	.0163524	1.30	0.197	-.0112483	.0537667
_Istate_34	-.0052603	.0148439	-0.35	0.724	-.0347689	.0242483
_Istate_35	.057011	.0153603	3.71	0.000	.0264758	.0875462
_Istate_36	-.0179641	.0153145	-1.17	0.244	-.0484083	.0124801
_Istate_37	-.0499507	.0198878	-2.51	0.014	-.0894864	-.010415
toneallp	2.85e-08	7.57e-08	0.38	0.707	-1.22e-07	1.79e-07
_cons	.0311722	.0269142	1.16	0.250	-.0223313	.0846758

. xi: regress turn00 turn96 turn92 turn88 senate toneallp

Source	SS	df	MS	Number of obs	=	128
Model	.501413124	5	.100282625	F(5, 122)	=	191.62
Residual	.063846189	122	.000523329	Prob > F	=	0.0000
Total	.565259313	127	.004450861	R-squared	=	0.8870
				Adj R-squared	=	0.8824
				Root MSE	=	.02288

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
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turn96	.499788	.0871046	5.74	0.000	.3273559	.6722202
turn92	.5225194	.1077132	4.85	0.000	.3092903	.7357484
turn88	-.201918	.0672802	-3.00	0.003	-.3351059	-.0687301
senate	.1490987	.0500078	2.98	0.003	.0501033	.248094
toneallp	7.97e-08	7.62e-08	1.05	0.298	-7.12e-08	2.31e-07
_cons	.02514	.0174313	1.44	0.152	-.0093669	.0596469

. xi: regress turn00 turn96 turn92 turn88 senate i.state toneallp contrate
candvisits
i.state _Istate_1-37 (_Istate_1 for state==AL omitted)

Source	SS	df	MS	Number of obs =	128
Model	.545194755	43	.012678948	F(43, 84) =	53.08
Residual	.020064558	84	.000238864	Prob > F =	0.0000
				R-squared =	0.9645
				Adj R-squared =	0.9463
Total	.565259313	127	.004450861	Root MSE =	.01546

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
turn96	.8016074	.0960653	8.34	0.000	.6105711 .9926438
turn92	.0277167	.1363493	0.20	0.839	-.2434289 .2988623
turn88	-.0294778	.0828436	-0.36	0.723	-.1942214 .1352658
senate	.2126078	.0759998	2.80	0.006	.061474 .3637417
_Istate_2	-.0476643	.0148409	-3.21	0.002	-.0771769 -.0181516
_Istate_3	-.0210729	.0121406	-1.74	0.086	-.0452157 .0030699
_Istate_4	-.006475	.0157258	-0.41	0.682	-.0377474 .0247974
_Istate_5	.0132568	.0164058	0.81	0.421	-.0193679 .0458815
_Istate_6	-.0079596	.0129489	-0.61	0.540	-.0337099 .0177907
_Istate_7	-.0135573	.013505	-1.00	0.318	-.0404134 .0132989
_Istate_8	-.0124696	.0161438	-0.77	0.442	-.0445732 .0196341
_Istate_9	-.0376683	.0174296	-2.16	0.034	-.0723289 -.0030076
_Istate_10	.0003489	.0152548	0.02	0.982	-.029987 .0306847
_Istate_11	-.0306624	.013293	-2.31	0.024	-.0570968 -.0042279
_Istate_12	-.0247759	.0147097	-1.68	0.096	-.0540278 .004476
_Istate_13	-.0106042	.0122674	-0.86	0.390	-.0349993 .0137909
_Istate_14	-.0162852	.013707	-1.19	0.238	-.0435432 .0109727
_Istate_15	.0025011	.0130572	0.19	0.849	-.0234646 .0284667
_Istate_16	-.0022334	.0125109	-0.18	0.859	-.0271126 .0226459
_Istate_17	.0156093	.0123039	1.27	0.208	-.0088583 .0400769
_Istate_18	.007018	.0166702	0.42	0.675	-.0261326 .0401685
_Istate_19	.0061069	.0115068	0.53	0.597	-.0167755 .0289894
_Istate_20	-.035758	.015276	-2.34	0.022	-.0661361 -.0053799
_Istate_21	.0257413	.0178703	1.44	0.153	-.0097958 .0612784
_Istate_22	-.027659	.0158712	-1.74	0.085	-.0592207 .0039026
_Istate_23	.0297659	.0134098	2.22	0.029	.003099 .0564327
_Istate_24	.0071473	.0126605	0.56	0.574	-.0180296 .0323242
_Istate_25	-.0182032	.0122012	-1.49	0.139	-.0424666 .0060602
_Istate_26	-.0194924	.0153635	-1.27	0.208	-.0500444 .0110596
_Istate_27	-.0221915	.0177052	-1.25	0.214	-.0574002 .0130171
_Istate_28	.0130567	.01298	1.01	0.317	-.0127554 .0388689
_Istate_29	.0179749	.0169004	1.06	0.291	-.0156333 .0515832
_Istate_30	-.0284319	.0137591	-2.07	0.042	-.0557933 -.0010705
_Istate_31	.0104931	.0124313	0.84	0.401	-.014228 .0352142
_Istate_32	.0009284	.0118666	0.08	0.938	-.0226696 .0245264
_Istate_33	.0193219	.0152642	1.27	0.209	-.0110326 .0496764
_Istate_34	-.0174395	.0139729	-1.25	0.215	-.0452262 .0103472
_Istate_35	.0466731	.0143322	3.26	0.002	.0181719 .0751744
_Istate_36	-.0256398	.0142292	-1.80	0.075	-.053936 .0026565
_Istate_37	-.0614622	.0185585	-3.31	0.001	-.0983678 -.0245566

	Replication_Log053007.log					
toneallp	-9.42e-08	7.62e-08	-1.24	0.220	-2.46e-07	5.75e-08
contrate	.0530298	.0320561	1.65	0.102	-.0107173	.1167769
candvisits	.007084	.0019553	3.62	0.000	.0031957	.0109723
_cons	.039531	.0253789	1.56	0.123	-.0109377	.0899997

. xi: regress turn00 turn96 turn92 turn88 senate toneallp contrate candvisits

Source	SS	df	MS	Number of obs = 128		
Model	.505374804	7	.072196401	F(7, 120) =	144.67	
Residual	.059884509	120	.000499038	Prob > F =	0.0000	
Total	.565259313	127	.004450861	R-squared =	0.8941	
				Adj R-squared =	0.8879	
				Root MSE =	.02234	

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
turn96	.510437	.0861422	5.93	0.000	.3398814	.6809925
turn92	.4864664	.11059	4.40	0.000	.267506	.7054268
turn88	-.1935203	.0700947	-2.76	0.007	-.332303	-.0547377
senate	.1591629	.0491822	3.24	0.002	.0617855	.2565404
toneallp	-1.42e-08	8.21e-08	-0.17	0.863	-1.77e-07	1.48e-07
contrate	.0223956	.0352072	0.64	0.526	-.0473123	.0921035
candvisits	.0056221	.0021827	2.58	0.011	.0013006	.0099437
_cons	.0271798	.0170399	1.60	0.113	-.0065581	.0609177

. regh turn00 senate toneallp, var(lncpop00 pq)

Iteration 0: log likelihood = 237.1283
 Iteration 1: log likelihood = 241.12628
 Iteration 2: log likelihood = 241.79456
 Iteration 3: log likelihood = 241.79484
 Iteration 4: log likelihood = 241.79484

multiplicative heteroscedastic regression
 Estimator: mle/Newton-Raphson
 Log Likelihood = 241.795
 Number of obs = 128
 LR chi2(4) = 152.758
 Prob > chi2 = 0.000
 corr2(y,yh) = 0.6237
 vcorr2(y,yh) = 0.5299

turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
mean						
senate	.6313306	.0586715	10.76	0.000	.5163367	.7463246
toneallp	3.85e-07	1.05e-07	3.68	0.000	1.80e-07	5.90e-07
_cons	.2634836	.0232223	11.35	0.000	.2179687	.3089984
gamma						
lncpop00	-.1189844	.084639	-1.41	0.160	-.2848737	.046905
pq	-79.04554	20.63283	-3.83	0.000	-119.4851	-38.60595
_cons	14.18386	4.967392	2.86	0.004	4.447955	23.91977

Model: log Var(y|x,z) = gamma

. regh turn00 senate v__istate v__istat1 v__istat2 v__istat3 v__istat4 v__istat5
 v__istat6 v__istat7 v__
 > _istat8 v__istat9 v__ista10 v__ista11 v__ista12 v__ista13 v__ista14 v__ista15
 v__ista16 v__ista17 v__i
 > sta18 v__ista19 v__ista20 v__ista21 v__ista22 v__ista23 v__ista24 v__ista25

Replication_Log053007.log

```

_cons | -2.362062  3.676762  -0.64  0.521  -9.568383  4.844259

```

Model: log Var(y|x,z) = gamma

```

. regh turn00 turn96 turn92 turn88 senate v__istate v__istat1 v__istat2 v__istat3
v__istat4 v__istat5 v
> __istat6 v__istat7 v__istat8 v__istat9 v__ista10 v__ista11 v__ista12 v__ista13
v__ista14 v__ista15 v__
> ista16 v__ista17 v__ista18 v__ista19 v__ista20 v__ista21 v__ista22 v__ista23
v__ista24 v__ista25 v__is
> ta26 v__ista27 v__ista28 v__ista29 v__ista30 v__ista31 v__ista32 v__ista33
v__ista34 v__ista35 toneall
> p, var(lncpop00 pq)

```

```

Iteration 0:  log likelihood = 374.41839
Iteration 1:  log likelihood = 384.30865
Iteration 2:  log likelihood = 385.02231
Iteration 3:  log likelihood = 385.03467
Iteration 4:  log likelihood = 385.03467

```

```

multiplicative heteroscedastic regression      Number of obs   =      128
Estimator: mle/Newton-Raphson                 LR chi2(43)     =     439.237
                                                Prob > chi2     =       0.000
                                                corr2(y,yh)    =     0.9454
Log Likelihood =      385.035                  vwcorr2(y,yh)  =     0.9566

```

	turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
mean						
turn96		.758627	.0879629	8.62	0.000	.5862229 .9310312
turn92		.1643126	.1155765	1.42	0.155	-.0622132 .3908384
turn88		.0060252	.0730307	0.08	0.934	-.1371123 .1491628
senate		.0232602	.0679506	0.34	0.732	-.1099205 .1564409
v__istate		-.0349285	.0107732	-3.24	0.001	-.0560436 -.0138134
v__istat1		.0018482	.007664	0.24	0.809	-.013173 .0168694
v__istat2		.0113899	.0116628	0.98	0.329	-.0114688 .0342487
v__istat3		.0082127	.0117246	0.70	0.484	-.0147671 .0311926
v__istat4		.0072034	.0086171	0.84	0.403	-.0096857 .0240925
v__istat5		-.0046256	.0096411	-0.48	0.631	-.0235217 .0142705
v__istat6		.0019432	.0122903	0.16	0.874	-.0221453 .0260318
v__istat7		-.054955	.0154892	-3.55	0.000	-.0853134 -.0245967
v__istat8		.0150833	.0093434	1.61	0.106	-.0032294 .033396
v__istat9		-.0212314	.0098097	-2.16	0.030	-.0404581 -.0020047
v__ista10		-.0299401	.0113641	-2.63	0.008	-.0522134 -.0076668
v__ista11		.0068189	.0088585	0.77	0.441	-.0105434 .0241812
v__ista12		.0035293	.0107401	0.33	0.742	-.017521 .0245796
v__ista13		.0246999	.0088175	2.80	0.005	.0074178 .0419819
v__ista14		.0131493	.0091959	1.43	0.153	-.0048743 .0311729
v__ista15		.0164838	.0103786	1.59	0.112	-.0038579 .0368256
v__ista16		-.0088802	.0136545	-0.65	0.515	-.0356425 .017882
v__ista17		.0155343	.0081277	1.91	0.056	-.0003957 .0314644
v__ista18		-.0201264	.0125511	-1.60	0.109	-.044726 .0044733
v__ista19		.0363597	.0145838	2.49	0.013	.007776 .0649435
v__ista20		-.0053514	.0102403	-0.52	0.601	-.0254219 .0147192
v__ista21		.0247285	.0122241	2.02	0.043	.0007696 .0486873
v__ista22		.0137866	.0089848	1.53	0.125	-.0038232 .0313965
v__ista23		-.0062886	.0084433	-0.74	0.456	-.0228372 .01026
v__ista24		-.0311083	.0104042	-2.99	0.003	-.0515002 -.0107164
v__ista25		.004354	.0137305	0.32	0.751	-.0225573 .0312653
v__ista26		.0168392	.009487	1.77	0.076	-.001755 .0354333
v__ista27		.0316343	.011626	2.72	0.007	.0088477 .0544209
v__ista28		-.0045985	.0084767	-0.54	0.587	-.0212125 .0120156

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v__ista29	.0164339	.0081118	2.03	0.043	.000535	.0323328
v__ista30	.0148044	.0088452	1.67	0.094	-.0025319	.0321407
v__ista31	.026883	.0174472	1.54	0.123	-.0073129	.0610789
v__ista32	.0017296	.0101953	0.17	0.865	-.0182528	.0217121
v__ista33	.0530895	.0114328	4.64	0.000	.0306815	.0754974
v__ista34	-.0212336	.0115322	-1.84	0.066	-.0438363	.0013691
v__ista35	-.0148336	.018597	-0.80	0.425	-.051283	.0216158
toneallp	4.75e-08	5.11e-08	0.93	0.353	-5.27e-08	1.48e-07
_cons	.0370501	.0199309	1.86	0.063	-.0020138	.076114

gamma						
lncpop00	-.3516722	.0787141	-4.47	0.000	-.5059491	-.1973953
pq	-26.58669	17.12331	-1.55	0.121	-60.14775	6.974375
_cons	2.139278	4.042062	0.53	0.597	-5.783017	10.06157

Model: log Var(y|x,z) = gamma

. regh turn00 turn96 turn92 turn88 senate toneallp, var(lncpop00 pq)

```
Iteration 0: log likelihood = 314.12909
Iteration 1: log likelihood = 317.23201
Iteration 2: log likelihood = 317.53985
Iteration 3: log likelihood = 317.54075
Iteration 4: log likelihood = 317.54075
```

multiplicative heteroscedastic regression
Estimator: mle/Newton-Raphson

```
Number of obs = 128
LR chi2(7) = 304.250
Prob > chi2 = 0.000
corr2(y,yh) = 0.8851
vwcorr2(y,yh) = 0.8644
```

Log Likelihood = 317.541

	turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]

mean						
turn96		.5369796	.0803878	6.68	0.000	.3794224 .6945369
turn92		.4025478	.1013807	3.97	0.000	.2038453 .6012503
turn88		-.1454794	.0633551	-2.30	0.022	-.2696532 -.0213057
senate		.1018463	.0450581	2.26	0.024	.0135342 .1901585
toneallp		1.26e-07	6.28e-08	2.00	0.045	2.63e-09 2.49e-07
_cons		.05988	.0191932	3.12	0.002	.0222621 .0974979

gamma						
lncpop00		-.1026581	.0784492	-1.31	0.191	-.2564158 .0510996
pq		-47.99018	17.83312	-2.69	0.007	-82.94245 -13.03791
_cons		5.218712	4.088448	1.28	0.202	-2.794499 13.23192

Model: log Var(y|x,z) = gamma

```
. regh turn00 turn96 turn92 turn88 senate v__istate v__istat1 v__istat2 v__istat3
v__istat4 v__istat5 v__
> _istat6 v__istat7 v__istat8 v__istat9 v__ista10 v__ista11 v__ista12 v__ista13
v__ista14 v__ista15 v__i
> sta16 v__ista17 v__ista18 v__ista19 v__ista20 v__ista21 v__ista22 v__ista23
v__ista24 v__ista25 v__ist
> a26 v__ista27 v__ista28 v__ista29 v__ista30 v__ista31 v__ista32 v__ista33
v__ista34 v__ista35 toneallp
> contrate candvisits, var(lncpop00 pq)
```

```
Iteration 0: log likelihood = 392.63761
Iteration 1: log likelihood = 401.83747
Iteration 2: log likelihood = 408.75596
Iteration 3: log likelihood = 408.81506
```


Replication_Log053007.log

Model	.51442496	38	.013537499	F(38, 89) = 23.70
Residual	.050834353	89	.000571173	Prob > F = 0.0000
Total	.565259313	127	.004450861	R-squared = 0.9101
				Adj R-squared = 0.8717
				Root MSE = .0239

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
senate	.8642603	.0580146	14.90	0.000	.7489867	.979534
_Istate_2	-.0415363	.0219753	-1.89	0.062	-.0852008	.0021282
_Istate_3	.0038092	.0176382	0.22	0.830	-.0312376	.038856
_Istate_4	.0233465	.022281	1.05	0.298	-.0209254	.0676184
_Istate_5	.1006962	.0218613	4.61	0.000	.0572583	.144134
_Istate_6	.0459164	.0172204	2.67	0.009	.0116999	.0801329
_Istate_7	.0049261	.0201753	0.24	0.808	-.0351619	.045014
_Istate_8	.0545568	.0220106	2.48	0.015	.0108222	.0982914
_Istate_9	.0285525	.0224004	1.27	0.206	-.0159567	.0730617
_Istate_10	.0378846	.0223314	1.70	0.093	-.0064875	.0822567
_Istate_11	.0073215	.017558	0.42	0.678	-.0275658	.0422088
_Istate_12	.0528776	.0196031	2.70	0.008	.0139267	.0918286
_Istate_13	-.0159543	.0170061	-0.94	0.351	-.049745	.0178365
_Istate_14	.0051506	.0202035	0.25	0.799	-.0349933	.0452945
_Istate_15	.0096794	.0195506	0.50	0.622	-.0291672	.0485259
_Istate_16	.0323624	.0182155	1.78	0.079	-.0038314	.0685562
_Istate_17	.0435339	.0178808	2.43	0.017	.0080052	.0790627
_Istate_18	.0382409	.0202616	1.89	0.062	-.0020185	.0785003
_Istate_19	.0146952	.0169185	0.87	0.387	-.0189216	.0483119
_Istate_20	-.0301352	.0229182	-1.31	0.192	-.0756732	.0154027
_Istate_21	.1468593	.0218192	6.73	0.000	.103505	.1902137
_Istate_22	.0000201	.0224232	0.00	0.999	-.0445343	.0445746
_Istate_23	.0094827	.0198173	0.48	0.633	-.029894	.0488593
_Istate_24	.0522964	.0175566	2.98	0.004	.0174118	.087181
_Istate_25	.0340273	.0170665	1.99	0.049	.0001165	.067938
_Istate_26	.031765	.0218931	1.45	0.150	-.0117362	.0752662
_Istate_27	.0691467	.0239309	2.89	0.005	.0215965	.116697
_Istate_28	.0669707	.0171969	3.89	0.000	.0328008	.1011407
_Istate_29	-.0244903	.0219096	-1.12	0.267	-.0680243	.0190437
_Istate_30	-.0035337	.019558	-0.18	0.857	-.042395	.0353276
_Istate_31	.0214006	.0184249	1.16	0.249	-.0152093	.0580105
_Istate_32	-.015255	.0170471	-0.89	0.373	-.0491271	.0186172
_Istate_33	.0542654	.0225881	2.40	0.018	.0093834	.0991474
_Istate_34	.0130179	.0205189	0.63	0.527	-.0277527	.0537884
_Istate_35	.0989917	.0200178	4.95	0.000	.0592167	.1387667
_Istate_36	-.0009116	.0185981	-0.05	0.961	-.0378656	.0360425
_Istate_37	-.0914731	.0250295	-3.65	0.000	-.1412062	-.0417401
post_tonea~p	2.62e-07	1.09e-07	2.40	0.019	4.46e-08	4.79e-07
_cons	.1632709	.0263688	6.19	0.000	.1108768	.2156651

. xi: regress turn00 turn96 turn92 turn88 senate i.state post_toneallp
i.state _Istate_1-37 (_Istate_1 for state==AL omitted)

Source	SS	df	MS	Number of obs = 128
Model	.54091955	41	.01319316	F(41, 86) = 46.62
Residual	.024339763	86	.000283021	Prob > F = 0.0000
Total	.565259313	127	.004450861	R-squared = 0.9569
				Adj R-squared = 0.9364
				Root MSE = .01682

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
--------	-------	-----------	---	------	----------------------

Replication_Log053007.log

turn96	.7490398	.1020221	7.34	0.000	.5462266	.9518531
turn92	.1249178	.1395005	0.90	0.373	-.1524001	.4022356
turn88	-.0625322	.0862412	-0.73	0.470	-.2339741	.1089097
senate	.2034952	.0826477	2.46	0.016	.0391969	.3677935
_Istate_2	-.0363093	.0158655	-2.29	0.025	-.0678489	-.0047696
_Istate_3	-.0053543	.0125377	-0.43	0.670	-.0302783	.0195698
_Istate_4	.0075152	.01672	0.45	0.654	-.0257231	.0407536
_Istate_5	.0190312	.0178702	1.06	0.290	-.0164935	.0545559
_Istate_6	.0074358	.0133915	0.56	0.580	-.0191855	.0340572
_Istate_7	-.0111174	.0146001	-0.76	0.448	-.0401415	.0179067
_Istate_8	.0018611	.0166567	0.11	0.911	-.0312513	.0349735
_Istate_9	-.038539	.0189189	-2.04	0.045	-.0761485	-.0009296
_Istate_10	.0159627	.0160558	0.99	0.323	-.0159551	.0478805
_Istate_11	-.0185811	.0139979	-1.33	0.188	-.0464081	.0092458
_Istate_12	-.0203658	.0158272	-1.29	0.202	-.0518292	.0110976
_Istate_13	.0006548	.0128872	0.05	0.960	-.0249641	.0262737
_Istate_14	-.0105195	.014737	-0.71	0.477	-.0398156	.0187767
_Istate_15	.0130438	.0139125	0.94	0.351	-.0146133	.0407008
_Istate_16	.0078207	.0131881	0.59	0.555	-.0183965	.0340379
_Istate_17	.0239732	.0131605	1.82	0.072	-.0021891	.0501355
_Istate_18	.013045	.01805	0.72	0.472	-.0228372	.0489273
_Istate_19	.0069202	.0121983	0.57	0.572	-.0173292	.0311695
_Istate_20	-.0289824	.0165179	-1.75	0.083	-.061819	.0038542
_Istate_21	.0428329	.0190081	2.25	0.027	.0050459	.0806198
_Istate_22	-.0091135	.0163156	-0.56	0.578	-.0415479	.0233209
_Istate_23	.036182	.0144932	2.50	0.014	.0073705	.0649934
_Istate_24	.0106261	.013525	0.79	0.434	-.0162608	.0375129
_Istate_25	-.0064989	.0128854	-0.50	0.615	-.0321142	.0191163
_Istate_26	-.0227187	.0166955	-1.36	0.177	-.0559083	.010471
_Istate_27	-.0150101	.0190269	-0.79	0.432	-.0528344	.0228141
_Istate_28	.0223861	.0138078	1.62	0.109	-.0050629	.0498351
_Istate_29	.0223294	.0171138	1.30	0.195	-.0116917	.0563505
_Istate_30	-.0113755	.0139367	-0.82	0.417	-.0390808	.0163298
_Istate_31	.0184709	.0132911	1.39	0.168	-.007951	.0448928
_Istate_32	.0032582	.0126075	0.26	0.797	-.0218047	.0283212
_Istate_33	.0216674	.0164575	1.32	0.191	-.011049	.0543839
_Istate_34	-.0049495	.0147248	-0.34	0.738	-.0342214	.0243225
_Istate_35	.0570724	.0153628	3.71	0.000	.0265321	.0876127
_Istate_36	-.017608	.0151753	-1.16	0.249	-.0477754	.0125594
_Istate_37	-.0498061	.0198706	-2.51	0.014	-.0893076	-.0103046
post_tonea~p	2.88e-08	8.41e-08	0.34	0.733	-1.38e-07	1.96e-07
_cons	.0309894	.0269175	1.15	0.253	-.0225207	.0844996

. xi: regress turn00 turn96 turn92 turn88 senate post_toneallp

Source	SS	df	MS	Number of obs =	128
Model	.501069353	5	.100213871	F(5, 122) =	190.47
Residual	.06418996	122	.000526147	Prob > F =	0.0000
Total	.565259313	127	.004450861	R-squared =	0.8864
				Adj R-squared =	0.8818
				Root MSE =	.02294

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
turn96	.5066285	.0871712	5.81	0.000	.3340645 .6791925
turn92	.5248548	.1081222	4.85	0.000	.3108161 .7388935
turn88	-.2056502	.0674394	-3.05	0.003	-.3391532 -.0721473
senate	.1445456	.0503814	2.87	0.005	.0448106 .2442807
post_tonea~p	5.67e-08	8.61e-08	0.66	0.511	-1.14e-07 2.27e-07
_cons	.0257277	.017463	1.47	0.143	-.0088421 .0602975

Replication_Log053007.log

```
. xi: regress turn00 turn96 turn92 turn88 senate i.state post_toneallp contrate
candvisits
i.state      _Istate_1-37      (_Istate_1 for state==AL omitted)
```

Source	SS	df	MS	Number of obs =	128
Model	.545139854	43	.012677671	F(43, 84) =	52.93
Residual	.02011946	84	.000239517	Prob > F =	0.0000
Total	.565259313	127	.004450861	R-squared =	0.9644
				Adj R-squared =	0.9462
				Root MSE =	.01548

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
turn96	.800735	.0962081	8.32	0.000	.6094147 .9920552
turn92	.0242715	.1363527	0.18	0.859	-.2468808 .2954238
turn88	-.0264322	.0827414	-0.32	0.750	-.1909725 .1381082
senate	.2136357	.0762432	2.80	0.006	.0620176 .3652537
_Istate_2	-.0476959	.0148644	-3.21	0.002	-.0772555 -.0181364
_Istate_3	-.021791	.0122671	-1.78	0.079	-.0461855 .0026036
_Istate_4	-.0066017	.0157502	-0.42	0.676	-.0379226 .0247192
_Istate_5	.0125108	.0165197	0.76	0.451	-.0203403 .045362
_Istate_6	-.0077234	.0129665	-0.60	0.553	-.0335088 .0180619
_Istate_7	-.0141115	.0135148	-1.04	0.299	-.0409871 .0127642
_Istate_8	-.0135284	.016286	-0.83	0.409	-.0459149 .0188581
_Istate_9	-.0386654	.0174044	-2.22	0.029	-.073276 -.0040548
_Istate_10	.0000151	.0152648	0.00	0.999	-.0303406 .0303709
_Istate_11	-.0310575	.0132996	-2.34	0.022	-.0575052 -.0046098
_Istate_12	-.0245924	.0147256	-1.67	0.099	-.0538758 .004691
_Istate_13	-.0110086	.0122584	-0.90	0.372	-.0353858 .0133687
_Istate_14	-.0173134	.0137095	-1.26	0.210	-.0445762 .0099494
_Istate_15	.0020796	.0130721	0.16	0.874	-.0239156 .0280748
_Istate_16	-.002877	.01247	-0.23	0.818	-.0276749 .0219209
_Istate_17	.0151665	.0122885	1.23	0.221	-.0092707 .0396036
_Istate_18	.0068185	.0166973	0.41	0.684	-.026386 .040023
_Istate_19	.0044913	.011425	0.39	0.695	-.0182286 .0272113
_Istate_20	-.0361954	.0152925	-2.37	0.020	-.0666062 -.0057846
_Istate_21	.0250098	.0181399	1.38	0.172	-.0110634 .061083
_Istate_22	-.0291123	.0157678	-1.85	0.068	-.0604683 .0022437
_Istate_23	.0296391	.0134272	2.21	0.030	.0029376 .0563406
_Istate_24	.0056576	.0126766	0.45	0.657	-.0195512 .0308663
_Istate_25	-.0187986	.0122373	-1.54	0.128	-.0431338 .0055367
_Istate_26	-.0193893	.0154	-1.26	0.212	-.0500139 .0112353
_Istate_27	-.0226288	.017722	-1.28	0.205	-.057871 .0126135
_Istate_28	.012085	.0129383	0.93	0.353	-.0136442 .0378142
_Istate_29	.0158214	.0167145	0.95	0.347	-.0174172 .04906
_Istate_30	-.0282073	.0137808	-2.05	0.044	-.055612 -.0008026
_Istate_31	.0102628	.0124982	0.82	0.414	-.0145911 .0351168
_Istate_32	-.0004787	.0117535	-0.04	0.968	-.0238518 .0228944
_Istate_33	.0180728	.0153534	1.18	0.242	-.0124592 .0486047
_Istate_34	-.0181808	.0139403	-1.30	0.196	-.0459026 .009541
_Istate_35	.0466698	.0143561	3.25	0.002	.0181212 .0752184
_Istate_36	-.0266163	.0141669	-1.88	0.064	-.0547887 .0015561
_Istate_37	-.0617176	.018577	-3.32	0.001	-.0986599 -.0247752
post_tonea~p	-9.61e-08	8.45e-08	-1.14	0.259	-2.64e-07 7.20e-08
contrate	.0532372	.0323943	1.64	0.104	-.0111823 .1176568
candvisits	.0069218	.0019353	3.58	0.001	.0030732 .0107704
_cons	.0400175	.0253935	1.58	0.119	-.0104803 .0905153

```
. xi: regress turn00 turn96 turn92 turn88 senate post_toneallp contrate candvisits
```

Replication_Log053007.log					
Source	SS	df	MS	Number of obs =	128
Model	.505579728	7	.072225675	F(7, 120) =	145.23
Residual	.059679585	120	.00049733	Prob > F =	0.0000
Total	.565259313	127	.004450861	R-squared =	0.8944
				Adj R-squared =	0.8883
				Root MSE =	.0223

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
turn96	.5184516	.0858404	6.04	0.000	.3484936 .6884097
turn92	.4863922	.1103928	4.41	0.000	.2678223 .7049622
turn88	-.1952982	.0699458	-2.79	0.006	-.333786 -.0568104
senate	.1532013	.0493129	3.11	0.002	.0555652 .2508374
post_tonea~p	-6.19e-08	9.31e-08	-0.66	0.507	-2.46e-07 1.22e-07
contrate	.0263066	.0352618	0.75	0.457	-.0435093 .0961225
candvisits	.0059866	.0021878	2.74	0.007	.001655 .0103183
_cons	.0274412	.0169912	1.62	0.109	-.0062002 .0610826

. regh turn00 senate post_toneallp, var(lncpop00 pq)

Iteration 0: log likelihood = 237.11337
 Iteration 1: log likelihood = 241.36212
 Iteration 2: log likelihood = 242.2116
 Iteration 3: log likelihood = 242.21169
 Iteration 4: log likelihood = 242.21169

multiplicative heteroscedastic regression	Number of obs =	128
Estimator: mle/Newton-Raphson	LR chi2(4) =	153.592
	Prob > chi2 =	0.000
	corr2(y,yh) =	0.6223
Log Likelihood = 242.212	vwcorr2(y,yh) =	0.5316

turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
mean					
senate	.6314797	.0585548	10.78	0.000	.5167144 .746245
post_tonea~p	4.47e-07	1.17e-07	3.81	0.000	2.17e-07 6.77e-07
_cons	.2641064	.0230221	11.47	0.000	.2189839 .3092289
gamma					
lncpop00	-.1144985	.0843131	-1.36	0.174	-.2797491 .0507521
pq	-81.77363	20.72011	-3.95	0.000	-122.3843 -41.16297
_cons	14.785	4.971386	2.97	0.003	5.041266 24.52874

Model: log Var(y|x,z) = gamma

. regh turn00 senate v__istate v__istat1 v__istat2 v__istat3 v__istat4 v__istat5
 v__istat6 v__istat7 v__
 > _istat8 v__istat9 v__ista10 v__ista11 v__ista12 v__ista13 v__ista14 v__ista15
 v__ista16 v__ista17 v__i
 > sta18 v__ista19 v__ista20 v__ista21 v__ista22 v__ista23 v__ista24 v__ista25
 v__ista26 v__ista27 v__ist
 > a28 v__ista29 v__ista30 v__ista31 v__ista32 v__ista33 v__ista34 v__ista35
 post_toneallp, var(lncpop00
 > pq)

Iteration 0: log likelihood = 321.33277
 Iteration 1: log likelihood = 324.7318
 Iteration 2: log likelihood = 325.13955

Replication_Log053007.log

```
v__ista14 v__ista15 v__
> ista16 v__ista17 v__ista18 v__ista19 v__ista20 v__ista21 v__ista22 v__ista23
v__ista24 v__ista25 v__is
> ta26 v__ista27 v__ista28 v__ista29 v__ista30 v__ista31 v__ista32 v__ista33
v__ista34 v__ista35 post_to
> neallp, var(lncpop00 pq)
```

```
Iteration 0: log likelihood = 374.88159
Iteration 1: log likelihood = 384.50101
Iteration 2: log likelihood = 385.15145
Iteration 3: log likelihood = 385.16262
Iteration 4: log likelihood = 385.16263
```

```
multiplicative heteroscedastic regression      Number of obs =      128
Estimator: mle/Newton-Raphson                  LR chi2(43)      =     439.493
                                                Prob > chi2      =       0.000
                                                corr2(y,yh)     =     0.9451
Log Likelihood =    385.163                    vwcorr2(y,yh)   =     0.9566
```

turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
mean					
turn96	.7577875	.087848	8.63	0.000	.5856085 .9299664
turn92	.1624408	.1152083	1.41	0.159	-.0633634 .388245
turn88	.0076476	.0730158	0.10	0.917	-.1354607 .150756
senate	.0235123	.0677646	0.35	0.729	-.1093039 .1563285
v__istate	-.0352442	.0107576	-3.28	0.001	-.0563287 -.0141598
v__istat1	.0023891	.007643	0.31	0.755	-.012591 .0173692
v__istat2	.0114737	.0116457	0.99	0.325	-.0113514 .0342988
v__istat3	.0086117	.0117268	0.73	0.463	-.0143725 .0315958
v__istat4	.0068968	.0086176	0.80	0.424	-.0099934 .023787
v__istat5	-.0045931	.0096133	-0.48	0.633	-.0234347 .0142485
v__istat6	.0024953	.0122372	0.20	0.838	-.0214892 .0264797
v__istat7	-.0547085	.0153753	-3.56	0.000	-.0848436 -.0245734
v__istat8	.0151485	.0092957	1.63	0.103	-.0030707 .0333677
v__istat9	-.0212365	.0097534	-2.18	0.029	-.0403529 -.0021201
v__ista10	-.0300472	.0113485	-2.65	0.008	-.0522898 -.0078046
v__ista11	.0067023	.0087959	0.76	0.446	-.0105373 .0239419
v__ista12	.0040875	.0106549	0.38	0.701	-.0167957 .0249706
v__ista13	.0249348	.0087934	2.84	0.005	.0077001 .0421695
v__ista14	.013217	.0090231	1.46	0.143	-.004468 .030902
v__ista15	.0159852	.0103913	1.54	0.124	-.0043814 .0363518
v__ista16	-.0089982	.0136391	-0.66	0.509	-.0357303 .0177339
v__ista17	.0163603	.007955	2.06	0.040	.0007688 .0319518
v__ista18	-.0198605	.0125035	-1.59	0.112	-.0443669 .0046459
v__ista19	.0372922	.0146482	2.55	0.011	.0085822 .0660022
v__ista20	-.0047974	.009948	-0.48	0.630	-.024295 .0147002
v__ista21	.0245918	.012205	2.01	0.044	.0006704 .0485132
v__ista22	.0144685	.0088331	1.64	0.101	-.002844 .031781
v__ista23	-.0060462	.0083781	-0.72	0.470	-.0224669 .0103744
v__ista24	-.0310182	.0103779	-2.99	0.003	-.0513586 -.0106779
v__ista25	.0043451	.0137176	0.32	0.751	-.022541 .0312312
v__ista26	.0170011	.0093604	1.82	0.069	-.001345 .0353472
v__ista27	.0323864	.0113907	2.84	0.004	.0100611 .0547117
v__ista28	-.004536	.0084606	-0.54	0.592	-.0211184 .0120464
v__ista29	.0166522	.0081078	2.05	0.040	.0007612 .0325433
v__ista30	.0152042	.0087164	1.74	0.081	-.0018797 .032288
v__ista31	.027756	.0174748	1.59	0.112	-.006494 .0620061
v__ista32	.0018943	.0100392	0.19	0.850	-.0177822 .0215709
v__ista33	.0530327	.0114287	4.64	0.000	.0306329 .0754326
v__ista34	-.0210133	.0114073	-1.84	0.065	-.0433711 .0013446
v__ista35	-.0146357	.0185544	-0.79	0.430	-.0510016 .0217303

Log Likelihood = 407.790 Replication_Log053007.log vcorr2(y,yh) = 0.9741

turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
mean						
turn96	.8260489	.0761919	10.84	0.000	.6767155	.9753823
turn92	.1667432	.1008819	1.65	0.098	-.0309816	.3644681
turn88	-.0190312	.0627641	-0.30	0.762	-.1420466	.1039842
senate	-.0002604	.0592379	-0.00	0.996	-.1163645	.1158438
v__istate	-.0446734	.00913	-4.89	0.000	-.0625678	-.0267789
v__istat1	-.0125564	.0066658	-1.88	0.060	-.0256211	.0005083
v__istat2	.0003744	.0093448	0.04	0.968	-.0179412	.0186899
v__istat3	-.000524	.0091776	-0.06	0.954	-.0185119	.0174638
v__istat4	-.0088647	.0074376	-1.19	0.233	-.0234422	.0057127
v__istat5	-.004582	.0077164	-0.59	0.553	-.019706	.0105419
v__istat6	-.0094204	.010428	-0.90	0.366	-.0298588	.0110181
v__istat7	-.0609647	.01368	-4.46	0.000	-.087777	-.0341523
v__istat8	-.0023885	.0077611	-0.31	0.758	-.0176	.012823
v__istat9	-.0288459	.0082192	-3.51	0.000	-.0449553	-.0127366
v__ista10	-.0387741	.009796	-3.96	0.000	-.0579739	-.0195744
v__ista11	.0010186	.0076503	0.13	0.894	-.0139757	.0160129
v__ista12	-.0046144	.0089804	-0.51	0.607	-.0222156	.0129868
v__ista13	.0201567	.0072674	2.77	0.006	.0059129	.0344005
v__ista14	-.0008756	.0075964	-0.12	0.908	-.0157643	.0140131
v__ista15	.0031941	.0088933	0.36	0.719	-.0142365	.0206247
v__ista16	-.0157225	.0120302	-1.31	0.191	-.0393012	.0078562
v__ista17	.0171975	.0068515	2.51	0.012	.0037688	.0306262
v__ista18	-.0246482	.0105899	-2.33	0.020	-.0454041	-.0038923
v__ista19	.0137128	.0122195	1.12	0.262	-.0102369	.0376625
v__ista20	-.0261809	.008393	-3.12	0.002	-.0426308	-.0097309
v__ista21	.0225766	.0111042	2.03	0.042	.0008127	.0443405
v__ista22	.0058331	.0072548	0.80	0.421	-.008386	.0200523
v__ista23	-.0197077	.0070821	-2.78	0.005	-.0335883	-.0058271
v__ista24	-.0307271	.0087124	-3.53	0.000	-.0478032	-.013651
v__ista25	-.014735	.0101613	-1.45	0.147	-.0346508	.0051807
v__ista26	.0047702	.0079529	0.60	0.549	-.0108172	.0203576
v__ista27	.0371979	.0100477	3.70	0.000	.0175048	.0568909
v__ista28	-.0178417	.0075733	-2.36	0.018	-.032685	-.0029983
v__ista29	.0119577	.0068004	1.76	0.079	-.0013708	.0252862
v__ista30	.0194587	.0073179	2.66	0.008	.0051159	.0338015
v__ista31	.0183065	.0163915	1.12	0.264	-.0138204	.0504333
v__ista32	-.0126405	.0083144	-1.52	0.128	-.0289364	.0036553
v__ista33	.0394055	.0088382	4.46	0.000	.022083	.056728
v__ista34	-.0277601	.0100128	-2.77	0.006	-.0473848	-.0081353
v__ista35	-.0215474	.017208	-1.25	0.211	-.0552745	.0121796
post_tonea~p	-5.33e-08	5.04e-08	-1.06	0.290	-1.52e-07	4.54e-08
contrate	.019715	.0221006	0.89	0.372	-.0236014	.0630314
candvisits	.0080417	.0011183	7.19	0.000	.0058498	.0102336
_cons	.0234625	.0165467	1.42	0.156	-.0089684	.0558935
gamma						
lnpop00	-.5489296	.0796272	-6.89	0.000	-.7049961	-.3928631
pq	-9.807121	15.72599	-0.62	0.533	-40.6295	21.01525
_cons	.222488	3.851176	0.06	0.954	-7.325678	7.770654

Model: log Var(y|x,z) = gamma

. regh turn00 turn96 turn92 turn88 senate post_toneallp contrate candvisits, var(lncpop00 pq)

Iteration 0: log likelihood = 315.59053
 Iteration 1: log likelihood = 321.31122

Replication_Log053007.log

Model	.513279395	38	.013507352	Prob > F	=	0.0000
Residual	.051979918	89	.000584044	R-squared	=	0.9080
Total	.565259313	127	.004450861	Adj R-squared	=	0.8688
				Root MSE	=	.02417

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
senate	.872296	.0589692	14.79	0.000	.7551255	.9894664
v__istate	-.0408817	.0222367	-1.84	0.069	-.0850656	.0033022
v__istat1	.0032421	.0178336	0.18	0.856	-.0321928	.038677
v__istat2	.0257209	.0225483	1.14	0.257	-.019082	.0705239
v__istat3	.1005049	.0221273	4.54	0.000	.0565384	.1444714
v__istat4	.0477261	.0173799	2.75	0.007	.0131927	.0822596
v__istat5	.0073622	.0203914	0.36	0.719	-.0331552	.0478796
v__istat6	.0556643	.0222443	2.50	0.014	.0114653	.0998633
v__istat7	.0320157	.0225541	1.42	0.159	-.0127989	.0768303
v__istat8	.0458	.022149	2.07	0.042	.0017903	.0898096
v__istat9	.0100736	.0176765	0.57	0.570	-.0250493	.0451964
v__ista10	.0567429	.0197364	2.88	0.005	.0175272	.0959587
v__ista11	-.014634	.0171725	-0.85	0.396	-.0487554	.0194873
v__ista12	.0097874	.0205099	0.48	0.634	-.0309654	.0505402
v__ista13	.011271	.0197564	0.57	0.570	-.0279845	.0505265
v__ista14	.0332452	.0186065	1.79	0.077	-.0037254	.0702159
v__ista15	.0481844	.0178251	2.70	0.008	.0127662	.0836025
v__ista16	.0402073	.0205486	1.96	0.054	-.0006224	.0810369
v__ista17	.0163601	.0170909	0.96	0.341	-.0175993	.0503194
v__ista18	-.0300883	.0231764	-1.30	0.198	-.0761393	.0159628
v__ista19	.1490022	.0221031	6.74	0.000	.1050838	.1929205
v__ista20	.0015823	.0226952	0.07	0.945	-.0435126	.0466771
v__ista21	.0100098	.0200379	0.50	0.619	-.029805	.0498246
v__ista22	.0565971	.01776	3.19	0.002	.0213083	.0918859
v__ista23	.0352177	.0172399	2.04	0.044	.0009623	.069473
v__ista24	.0339783	.0222413	1.53	0.130	-.0102148	.0781714
v__ista25	.0725924	.0240739	3.02	0.003	.0247581	.1204267
v__ista26	.070819	.0172141	4.11	0.000	.0366151	.105023
v__ista27	-.0226267	.0221323	-1.02	0.309	-.0666032	.0213497
v__ista28	-.0058137	.0197419	-0.29	0.769	-.0450404	.033413
v__ista29	.0222175	.0187857	1.18	0.240	-.0151094	.0595444
v__ista30	-.0142882	.0172306	-0.83	0.409	-.048525	.0199487
v__ista31	.0568078	.0229187	2.48	0.015	.0112688	.1023468
v__ista32	.0168424	.0205684	0.82	0.415	-.0240267	.0577114
v__ista33	.1004744	.0202335	4.97	0.000	.060271	.1406779
v__ista34	.0005718	.0187768	0.03	0.976	-.0367374	.037881
v__ista35	-.0919664	.0253099	-3.63	0.000	-.1422566	-.0416762
allg	.0005972	.0003125	1.91	0.059	-.0000237	.001218
_cons	.1579038	.0274379	5.75	0.000	.1033852	.2124224

```
. xi: regress turn00 turn96 turn92 turn88 senate v__istate v__istat1 v__istat2
v__istat3 v__istat4 v__is
> tat5 v__istat6 v__istat7 v__istat8 v__istat9 v__ista10 v__ista11 v__ista12
v__ista13 v__ista14 v__ista
> 15 v__ista16 v__ista17 v__ista18 v__ista19 v__ista20 v__ista21 v__ista22 v__ista23
v__ista24 v__ista25
> v__ista26 v__ista27 v__ista28 v__ista29 v__ista30 v__ista31 v__ista32 v__ista33
v__ista34 v__ista35 a
> llg
```

Source	SS	df	MS	Number of obs	=	128
Model	.541068653	41	.013196796	F(41, 86)	=	46.92
Residual	.02419066	86	.000281287	Prob > F	=	0.0000
				R-squared	=	0.9572

Replication_Log053007.log

Total | .565259313 127 .004450861 Adj R-squared = 0.9368
 Root MSE = .01677

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
turn96	.7530785	.101724	7.40	0.000	.5508579 .9552992
turn92	.1114325	.1367613	0.81	0.417	-.1604401 .383305
turn88	-.0583873	.0847599	-0.69	0.493	-.2268845 .1101099
senate	.2104574	.0815358	2.58	0.012	.0483696 .3725453
v__istate	-.0373575	.0158004	-2.36	0.020	-.0687675 -.0059474
v__istat1	-.0051152	.0124972	-0.41	0.683	-.0299589 .0197284
v__istat2	.0078648	.0166378	0.47	0.638	-.0252102 .0409397
v__istat3	.0190957	.0177087	1.08	0.284	-.016108 .0542993
v__istat4	.0063394	.0133816	0.47	0.637	-.0202624 .0329411
v__istat5	-.0109262	.014541	-0.75	0.454	-.0398328 .0179805
v__istat6	.0018484	.0166024	0.11	0.912	-.0311562 .0348529
v__istat7	-.0384995	.0188407	-2.04	0.044	-.0759536 -.0010453
v__istat8	.0164587	.0158177	1.04	0.301	-.014986 .0479033
v__istat9	-.0189233	.0138664	-1.36	0.176	-.0464886 .0086421
v__ista10	-.019769	.0157981	-1.25	0.214	-.0511746 .0116366
v__ista11	-.0002714	.0127289	-0.02	0.983	-.0255757 .0250329
v__ista12	-.0095059	.014701	-0.65	0.520	-.0387305 .0197187
v__ista13	.0129912	.0138344	0.94	0.350	-.0145106 .040493
v__ista14	.0059998	.013312	0.45	0.653	-.0204635 .0324632
v__ista15	.023592	.0129476	1.82	0.072	-.0021469 .0493309
v__ista16	.0138851	.0180161	0.77	0.443	-.0219297 .0496998
v__ista17	.006895	.01213	0.57	0.571	-.0172186 .0310086
v__ista18	-.0290887	.0164565	-1.77	0.081	-.0618031 .0036257
v__ista19	.0442341	.0188911	2.34	0.022	.0066798 .0817885
v__ista20	-.0106691	.0162691	-0.66	0.514	-.0430109 .0216727
v__ista21	.0360677	.0144342	2.50	0.014	.0073734 .064762
v__ista22	.0114561	.0135128	0.85	0.399	-.0154065 .0383187
v__ista23	-.0069707	.0128601	-0.54	0.589	-.0325357 .0185942
v__ista24	-.0210789	.0167083	-1.26	0.211	-.054294 .0121361
v__ista25	-.0155286	.0189811	-0.82	0.416	-.0532618 .0222046
v__ista26	.0220593	.013691	1.61	0.111	-.0051575 .0492762
v__ista27	.021658	.016868	1.28	0.203	-.0118744 .0551904
v__ista28	-.0117041	.0138811	-0.84	0.401	-.0392988 .0158907
v__ista29	.019719	.0133573	1.48	0.144	-.0068345 .0462725
v__ista30	.0028925	.0124979	0.23	0.818	-.0219526 .0277375
v__ista31	.0230753	.0164934	1.40	0.165	-.0097124 .055863
v__ista32	-.0059133	.014594	-0.41	0.686	-.0349253 .0230987
v__ista33	.0567866	.0153183	3.71	0.000	.0263349 .0872383
v__ista34	-.0185218	.0150556	-1.23	0.222	-.0484514 .0114077
v__ista35	-.0505119	.0197419	-2.56	0.012	-.0897575 -.0112663
allg	.0001839	.0002285	0.81	0.423	-.0002702 .0006381
_cons	.029692	.0263135	1.13	0.262	-.0226175 .0820014

. xi: regress turn00 turn96 turn92 turn88 senate allg

Source	SS	df	MS	Number of obs = 128
Model	.501008598	5	.10020172	F(5, 122) = 190.26
Residual	.064250715	122	.000526645	Prob > F = 0.0000
Total	.565259313	127	.004450861	R-squared = 0.8863
				Adj R-squared = 0.8817
				Root MSE = .02295

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
turn96	.5118344	.0862924	5.93	0.000	.3410099 .6826589

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turn92	.5251236	.1082876	4.85	0.000	.3107575	.7394896
turn88	-.206185	.0675576	-3.05	0.003	-.339922	-.0724481
senate	.1420159	.0498521	2.85	0.005	.0433287	.2407032
allg	.0001294	.0002293	0.56	0.573	-.0003245	.0005834
_cons	.0241283	.0178025	1.36	0.178	-.0111135	.0593701

```
. xi: regress turn00 turn96 turn92 turn88 senate v__istate v__istat1 v__istat2
v__istat3 v__istat4 v__is
> tat5 v__istat6 v__istat7 v__istat8 v__istat9 v__ista10 v__ista11 v__ista12
v__ista13 v__ista14 v__ista
> 15 v__ista16 v__ista17 v__ista18 v__ista19 v__ista20 v__ista21 v__ista22 v__ista23
v__ista24 v__ista25
> v__ista26 v__ista27 v__ista28 v__ista29 v__ista30 v__ista31 v__ista32 v__ista33
v__ista34 v__ista35 a
> l1g contrate candvisits
```

Source	SS	df	MS	Number of obs =	128
Model	.54502105	43	.012674908	F(43, 84) =	52.61
Residual	.020238263	84	.000240932	Prob > F =	0.0000
Total	.565259313	127	.004450861	R-squared =	0.9642
				Adj R-squared =	0.9459
				Root MSE =	.01552

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
turn96	.7926263	.096018	8.25	0.000	.601684 .9835686
turn92	.0103918	.1356108	0.08	0.939	-.2592852 .2800688
turn88	-.0179275	.0824783	-0.22	0.828	-.1819447 .1460897
senate	.2215494	.075633	2.93	0.004	.0711449 .3719539
v__istate	-.04821	.0148911	-3.24	0.002	-.0778226 -.0185974
v__istat1	-.021482	.0123492	-1.74	0.086	-.0460397 .0030758
v__istat2	-.0076643	.0158841	-0.48	0.631	-.0392515 .023923
v__istat3	.0140535	.0164507	0.85	0.395	-.0186604 .0467675
v__istat4	-.0077975	.0130045	-0.60	0.550	-.0336583 .0180633
v__istat5	-.0147241	.0135696	-1.09	0.281	-.0417088 .0122606
v__istat6	-.0129749	.016339	-0.79	0.429	-.0454668 .0195169
v__istat7	-.0393955	.0174395	-2.26	0.026	-.0740757 -.0047152
v__istat8	-.0022797	.0153971	-0.15	0.883	-.0328984 .0283391
v__istat9	-.0320262	.0133467	-2.40	0.019	-.0585676 -.0054848
v__ista10	-.0246803	.0148152	-1.67	0.099	-.0541419 .0047813
v__ista11	-.0120131	.0122383	-0.98	0.329	-.0363504 .0123241
v__ista12	-.0189487	.0138997	-1.36	0.176	-.0465898 .0086925
v__ista13	.0013831	.0131386	0.11	0.916	-.0247445 .0275107
v__ista14	-.0027974	.0125903	-0.22	0.825	-.0278346 .0222398
v__ista15	.0136788	.0122307	1.12	0.267	-.0106433 .038001
v__ista16	.0057224	.0168394	0.34	0.735	-.0277646 .0392094
v__ista17	.0039226	.0114623	0.34	0.733	-.0188714 .0267166
v__ista18	-.0365872	.0153433	-2.38	0.019	-.0670991 -.0060753
v__ista19	.0262418	.0181891	1.44	0.153	-.0099292 .0624127
v__ista20	-.0297334	.0157898	-1.88	0.063	-.0611332 .0016664
v__ista21	.0292205	.0134718	2.17	0.033	.0024304 .0560107
v__ista22	.0046516	.0128428	0.36	0.718	-.0208878 .030191
v__ista23	-.0185758	.0122703	-1.51	0.134	-.0429767 .0058251
v__ista24	-.0190731	.0154941	-1.23	0.222	-.0498848 .0117386
v__ista25	-.0224976	.017778	-1.27	0.209	-.0578511 .0128559
v__ista26	.0111422	.0129597	0.86	0.392	-.0146296 .0369139
v__ista27	.0143707	.0167116	0.86	0.392	-.0188622 .0476036
v__ista28	-.0271451	.0137386	-1.98	0.051	-.0544658 .0001757
v__ista29	.0097957	.0127492	0.77	0.444	-.0155575 .0351488
v__ista30	-.0012861	.0117564	-0.11	0.913	-.0246651 .0220928
v__ista31	.0177876	.0154867	1.15	0.254	-.0130094 .0485847

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v__ista32	-.0191009	.01394	-1.37	0.174	-.0468222	.0086203
v__ista33	.0471064	.0143853	3.27	0.002	.0184997	.075713
v__ista34	-.0274845	.0141638	-1.94	0.056	-.0556509	.0006818
v__ista35	-.062647	.0186129	-3.37	0.001	-.0996609	-.0256332
allg	-.0002112	.0002374	-0.89	0.376	-.0006833	.0002609
contrate	.0514585	.0327577	1.57	0.120	-.0136837	.1166007
candvisits	.0069438	.001971	3.52	0.001	.0030242	.0108633
_cons	.0450924	.0254207	1.77	0.080	-.0054595	.0956444

. xi: regress turn00 turn96 turn92 turn88 senate allg contrate candvisits

Source	SS	df	MS	Number of obs =	128
Model	.505919975	7	.072274282	F(7, 120) =	146.16
Residual	.059339338	120	.000494494	Prob > F =	0.0000
Total	.565259313	127	.004450861	R-squared =	0.8950
				Adj R-squared =	0.8889
				Root MSE =	.02224

turn00	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
turn96	.5172199	.0844862	6.12	0.000	.349943 .6844968
turn92	.4870705	.1100771	4.42	0.000	.2691254 .7050155
turn88	-.1977649	.0698011	-2.83	0.005	-.3359661 -.0595637
senate	.1513811	.0486	3.11	0.002	.0551564 .2476057
allg	-.0002741	.0002576	-1.06	0.289	-.0007842 .0002359
contrate	.0294931	.0351838	0.84	0.404	-.0401683 .0991545
candvisits	.0064983	.0022597	2.88	0.005	.0020243 .0109723
_cons	.031268	.0173987	1.80	0.075	-.0031802 .0657163

. regh turn00 senate allg, var(lncpop00 pq)

Iteration 0: log likelihood = 234.3837
 Iteration 1: log likelihood = 238.4617
 Iteration 2: log likelihood = 238.68239
 Iteration 3: log likelihood = 238.68292
 Iteration 4: log likelihood = 238.68292

multiplicative heteroscedastic regression
 Estimator: mle/Newton-Raphson
 Log Likelihood = 238.683

Number of obs = 128
 LR chi2(4) = 146.534
 Prob > chi2 = 0.000
 corr2(y,yh) = 0.6025
 vcorr2(y,yh) = 0.5051

turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
mean					
senate	.6363847	.0604764	10.52	0.000	.5178532 .7549163
allg	.0008671	.000327	2.65	0.008	.0002261 .0015081
_cons	.2643788	.0243582	10.85	0.000	.2166376 .31212
gamma					
lncpop00	-.1174818	.084121	-1.40	0.163	-.2823559 .0473923
pq	-81.60059	21.26646	-3.84	0.000	-123.2821 -39.91909
_cons	14.83621	5.105861	2.91	0.004	4.82891 24.84352

Model: log Var(y|x,z) = gamma

. regh turn00 senate v__istate v__istat1 v__istat2 v__istat3 v__istat4 v__istat5

Replication_Log053007.log

```
v__istat6 v__istat7 v__
> _istat8 v__istat9 v__ista10 v__ista11 v__ista12 v__ista13 v__ista14 v__ista15
v__ista16 v__ista17 v__i
> sta18 v__ista19 v__ista20 v__ista21 v__ista22 v__ista23 v__ista24 v__ista25
v__ista26 v__ista27 v__ist
> a28 v__ista29 v__ista30 v__ista31 v__ista32 v__ista33 v__ista34 v__ista35 allg,
var(lncpop00 pq)
```

```
Iteration 0: log likelihood = 320.71425
Iteration 1: log likelihood = 324.0136
Iteration 2: log likelihood = 324.41818
Iteration 3: log likelihood = 324.41953
Iteration 4: log likelihood = 324.41953
```

```
multiplicative heteroscedastic regression      Number of obs   =      128
Estimator: mle/Newton-Raphson                 LR chi2(40)     =     318.007
                                                Prob > chi2     =       0.000
                                                corr2(y,yh)    =       0.9005
Log Likelihood =      324.420                  vwcorr2(y,yh)  =       0.8933
```

turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
mean						
senate	.8207977	.0665416	12.34	0.000	.6903786	.9512169
v__istate	-.0363466	.0173699	-2.09	0.036	-.0703909	-.0023022
v__istat1	.0080705	.0128146	0.63	0.529	-.0170458	.0331867
v__istat2	.0253204	.0177987	1.42	0.155	-.0095644	.0602051
v__istat3	.0969502	.0164297	5.90	0.000	.0647486	.1291517
v__istat4	.0470001	.0129643	3.63	0.000	.0215905	.0724096
v__istat5	.0081234	.0161098	0.50	0.614	-.0234513	.0396981
v__istat6	.0578574	.0179817	3.22	0.001	.022614	.0931007
v__istat7	.0271153	.0207064	1.31	0.190	-.0134685	.0676991
v__istat8	.0474541	.0152415	3.11	0.002	.0175813	.0773268
v__istat9	.0127884	.0138564	0.92	0.356	-.0143697	.0399465
v__ista10	.0613907	.0158509	3.87	0.000	.0303234	.092458
v__ista11	-.0085027	.0136184	-0.62	0.532	-.0351942	.0181889
v__ista12	.0158969	.0160522	0.99	0.322	-.0155647	.0473585
v__ista13	.0191869	.014969	1.28	0.200	-.0101519	.0485257
v__ista14	.0333324	.0150113	2.22	0.026	.0039107	.062754
v__ista15	.0604905	.0155709	3.88	0.000	.0299722	.0910089
v__ista16	.040395	.0187545	2.15	0.031	.0036369	.077153
v__ista17	.0212561	.0132365	1.61	0.108	-.004687	.0471991
v__ista18	-.0258448	.0197842	-1.31	0.191	-.064621	.0129315
v__ista19	.1523947	.0188133	8.10	0.000	.1155214	.189268
v__ista20	.0041834	.0157521	0.27	0.791	-.0266901	.0350569
v__ista21	-.0113228	.0182417	-0.62	0.535	-.0470758	.0244303
v__ista22	.0563155	.0129957	4.33	0.000	.0308443	.0817866
v__ista23	.0374741	.0128889	2.91	0.004	.0122123	.0627359
v__ista24	.0317669	.0161268	1.97	0.049	.000159	.0633748
v__ista25	.0597355	.0204026	2.93	0.003	.0197472	.0997238
v__ista26	.0709893	.0139574	5.09	0.000	.0436332	.0983453
v__ista27	-.0250372	.0169868	-1.47	0.141	-.0583308	.0082563
v__ista28	-.0053304	.0143502	-0.37	0.710	-.0334563	.0227954
v__ista29	.0208568	.0135461	1.54	0.124	-.0056931	.0474068
v__ista30	-.0092794	.0136332	-0.68	0.496	-.0359999	.0174412
v__ista31	.0615009	.0236962	2.60	0.009	.0150573	.1079445
v__ista32	.0213921	.01586	1.35	0.177	-.0096929	.0524771
v__ista33	.1023671	.016161	6.33	0.000	.0706921	.1340421
v__ista34	.0100117	.0168679	0.59	0.553	-.0230489	.0430723
v__ista35	-.0800841	.0246658	-3.25	0.001	-.1284281	-.0317401
allg	.0005535	.0002454	2.26	0.024	.0000725	.0010345
_cons	.1784497	.0287786	6.20	0.000	.1220447	.2348547

Replication_Log053007.log

gamma						
lncpop00	-.2609131	.0855405	-3.05	0.002	-.4285693	-.0932568
pq	-10.02345	15.58103	-0.64	0.520	-40.5617	20.51479
_cons	-2.116332	3.538777	-0.60	0.550	-9.052209	4.819544

Model: log Var(y|x,z) = gamma

```
. regh turn00 turn96 turn92 turn88 senate v__istate v__istat1 v__istat2 v__istat3
v__istat4 v__istat5 v
> v__istat6 v__istat7 v__istat8 v__istat9 v__ista10 v__ista11 v__ista12 v__ista13
v__ista14 v__ista15 v__
> ista16 v__ista17 v__ista18 v__ista19 v__ista20 v__ista21 v__ista22 v__ista23
v__ista24 v__ista25 v__is
> ta26 v__ista27 v__ista28 v__ista29 v__ista30 v__ista31 v__ista32 v__ista33
v__ista34 v__ista35 allg, v
> ar(lncpop00 pq)
```

```
Iteration 0: log likelihood = 375.70604
Iteration 1: log likelihood = 386.26843
Iteration 2: log likelihood = 386.8655
Iteration 3: log likelihood = 386.87552
Iteration 4: log likelihood = 386.87553
```

```
multiplicative heteroscedastic regression      Number of obs =      128
Estimator: mle/Newton-Raphson                 LR chi2(43) =      442.919
                                                Prob > chi2 =      0.000
                                                corr2(y,yh) =      0.9449
Log Likelihood =      386.876                  vwcorr2(y,yh) =      0.9585
```

turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
mean					
turn96	.7742636	.0874141	8.86	0.000	.6029351 .9455921
turn92	.1379987	.1140011	1.21	0.226	-.0854393 .3614366
turn88	.0196513	.0719949	0.27	0.785	-.1214561 .1607587
senate	.0285438	.0668255	0.43	0.669	-.1024317 .1595193
v__istate	-.0371782	.0105452	-3.53	0.000	-.0578463 -.01651
v__istat1	.0028629	.0075097	0.38	0.703	-.0118558 .0175816
v__istat2	.0123804	.0113855	1.09	0.277	-.0099347 .0346955
v__istat3	.0077851	.0114464	0.68	0.496	-.0146493 .0302196
v__istat4	.0050797	.0084666	0.60	0.549	-.0115145 .0216739
v__istat5	-.0031657	.0094342	-0.34	0.737	-.0216563 .0153249
v__istat6	.0024019	.0120309	0.20	0.842	-.0211781 .025982
v__istat7	-.0560916	.0152079	-3.69	0.000	-.0858985 -.0262847
v__istat8	.0164181	.0090255	1.82	0.069	-.0012715 .0341076
v__istat9	-.021848	.0095547	-2.29	0.022	-.0405749 -.0031211
v__ista10	-.0293961	.0112164	-2.62	0.009	-.0513797 -.0074124
v__ista11	.0058616	.0085501	0.69	0.493	-.0108963 .0226196
v__ista12	.0060628	.0104707	0.58	0.563	-.0144594 .026585
v__ista13	.0263669	.0086635	3.04	0.002	.0093867 .0433471
v__ista14	.0087938	.0090991	0.97	0.334	-.00904 .0266277
v__ista15	.0153394	.0098643	1.56	0.120	-.0039942 .034673
v__ista16	-.0078842	.013546	-0.58	0.561	-.0344339 .0186654
v__ista17	.0170161	.0078075	2.18	0.029	.0017137 .0323185
v__ista18	-.0208651	.0123592	-1.69	0.091	-.0450887 .0033586
v__ista19	.0393369	.0143551	2.74	0.006	.0112015 .0674723
v__ista20	-.0074433	.009744	-0.76	0.445	-.0265412 .0116546
v__ista21	.0251669	.0120579	2.09	0.037	.0015339 .0488
v__ista22	.0150411	.0085979	1.75	0.080	-.0018105 .0318926
v__ista23	-.0069293	.0082355	-0.84	0.400	-.0230707 .0092121
v__ista24	-.0285395	.0103125	-2.77	0.006	-.0487515 -.0083275

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v__ista25	.0032225	.0132439	0.24	0.808	-.0227351	.0291801	
v__ista26	.0161664	.0091135	1.77	0.076	-.0016957	.0340284	
v__ista27	.0327199	.0111357	2.94	0.003	.0108943	.0545455	
v__ista28	-.0048621	.008323	-0.58	0.559	-.0211748	.0114506	
v__ista29	.018892	.0080701	2.34	0.019	.0030749	.0347091	
v__ista30	.0151772	.0085273	1.78	0.075	-.0015359	.0318904	
v__ista31	.0297327	.0175301	1.70	0.090	-.0046256	.064091	
v__ista32	7.27e-06	.0097736	0.00	0.999	-.0191487	.0191632	
v__ista33	.0525671	.0111094	4.73	0.000	.0307931	.074341	
v__ista34	-.0230335	.0113278	-2.03	0.042	-.0452355	-.0008314	
v__ista35	-.0153066	.0185017	-0.83	0.408	-.0515694	.0209561	
allg	.0003266	.0001516	2.15	0.031	.0000295	.0006237	
_cons	.0313381	.019623	1.60	0.110	-.0071222	.0697984	

gamma							
lnpop00	-.3797287	.0808203	-4.70	0.000	-.5381335	-.2213239	
pq	-24.57817	16.73877	-1.47	0.142	-57.38557	8.229221	
_cons	1.980646	3.932291	0.50	0.614	-5.726504	9.687795	

Model: log Var(y|x,z) = gamma

. regh turn00 turn96 turn92 turn88 senate allg, var(lncpop00 pq)

Iteration 0: log likelihood = 313.10529
 Iteration 1: log likelihood = 316.01825
 Iteration 2: log likelihood = 316.28294
 Iteration 3: log likelihood = 316.28386
 Iteration 4: log likelihood = 316.28386

multiplicative heteroscedastic regression	Number of obs	=	128
Estimator: mle/Newton-Raphson	LR chi2(7)	=	301.736
	Prob > chi2	=	0.000
	corr2(y,yh)	=	0.8846
Log Likelihood = 316.284	vwcorr2(y,yh)	=	0.8625

turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	

mean						
turn96	.5559759	.0803476	6.92	0.000	.3984975 .7134542	
turn92	.4030988	.1030122	3.91	0.000	.2011986 .6049989	
turn88	-.1486624	.0644519	-2.31	0.021	-.2749858 -.022339	
senate	.0936037	.0454862	2.06	0.040	.0044525 .182755	
allg	.000228	.0001923	1.19	0.236	-.0001489 .0006049	
_cons	.0568972	.0195848	2.91	0.004	.0185117 .0952827	

gamma						
lncpop00	-.0987264	.0784393	-1.26	0.208	-.2524646 .0550119	
pq	-46.08617	17.79027	-2.59	0.010	-80.95446 -11.21788	
_cons	4.723666	4.060636	1.16	0.245	-3.235034 12.68237	

Model: log Var(y|x,z) = gamma

. regh turn00 turn96 turn92 turn88 senate v__istate v__istat1 v__istat2 v__istat3
 v__istat4 v__istat5 v__
 > _istat6 v__istat7 v__istat8 v__istat9 v__ista10 v__ista11 v__ista12 v__ista13
 v__ista14 v__ista15 v__i
 > sta16 v__ista17 v__ista18 v__ista19 v__ista20 v__ista21 v__ista22 v__ista23
 v__ista24 v__ista25 v__ist
 > a26 v__ista27 v__ista28 v__ista29 v__ista30 v__ista31 v__ista32 v__ista33
 v__ista34 v__ista35 allg con
 > trate candvisits, var(lncpop00 pq)

Replication_Log053007.log

Iteration 0: log likelihood = 389.99557
 Iteration 1: log likelihood = 397.825
 Iteration 2: log likelihood = 407.2802
 Iteration 3: log likelihood = 407.40092
 Iteration 4: log likelihood = 407.40122
 Iteration 5: log likelihood = 407.40122

multiplicative heteroscedastic regression
 Estimator: mle/Newton-Raphson

Number of obs = 128
 LR chi2(45) = 483.971
 Prob > chi2 = 0.000
 corr2(y,yh) = 0.9498
 vcorr2(y,yh) = 0.9739

Log Likelihood = 407.401

turn00	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
mean						
turn96	.8213834	.0765269	10.73	0.000	.6713934	.9713733
turn92	.1599549	.1010499	1.58	0.113	-.0380993	.3580091
turn88	-.0135489	.0626157	-0.22	0.829	-.1362733	.1091755
senate	.0041173	.0594482	0.07	0.945	-.112399	.1206336
v__istate	-.0456412	.0090788	-5.03	0.000	-.0634353	-.0278471
v__istat1	-.0123498	.0067645	-1.83	0.068	-.0256081	.0009084
v__istat2	-5.04e-06	.0094675	-0.00	1.000	-.018561	.0185509
v__istat3	-.0000592	.0091917	-0.01	0.995	-.0180746	.0179562
v__istat4	-.0093917	.007429	-1.26	0.206	-.0239523	.0051688
v__istat5	-.0050128	.0077751	-0.64	0.519	-.0202516	.0102261
v__istat6	-.0094115	.0105146	-0.90	0.371	-.0300197	.0111967
v__istat7	-.0625729	.0136127	-4.60	0.000	-.0892534	-.0358925
v__istat8	-.0030812	.0079884	-0.39	0.700	-.0187382	.0125759
v__istat9	-.0297842	.0081867	-3.64	0.000	-.0458298	-.0137386
v__ista10	-.0389782	.0098738	-3.95	0.000	-.0583305	-.019626
v__ista11	-.0000918	.007572	-0.01	0.990	-.0149327	.014749
v__ista12	-.0052638	.0090698	-0.58	0.562	-.0230403	.0125127
v__ista13	.0199994	.0073815	2.71	0.007	.0055321	.0344668
v__ista14	-.0015387	.007757	-0.20	0.843	-.0167421	.0136647
v__ista15	.0007758	.0085769	0.09	0.928	-.0160346	.0175861
v__ista16	-.0161903	.0121207	-1.34	0.182	-.0399464	.0075658
v__ista17	.0167723	.0068868	2.44	0.015	.0032744	.0302702
v__ista18	-.0250586	.0106052	-2.36	0.018	-.0458445	-.0042727
v__ista19	.0145141	.0124841	1.16	0.245	-.0099543	.0389825
v__ista20	-.027061	.0083457	-3.24	0.001	-.0434183	-.0107037
v__ista21	.0220215	.0111722	1.97	0.049	.0001243	.0439186
v__ista22	.0051318	.0072964	0.70	0.482	-.0091689	.0194326
v__ista23	-.0200267	.0070998	-2.82	0.005	-.0339421	-.0061113
v__ista24	-.0306542	.0088337	-3.47	0.001	-.0479679	-.0133405
v__ista25	-.0149611	.0102029	-1.47	0.143	-.0349584	.0050362
v__ista26	.0037267	.0078991	0.47	0.637	-.0117552	.0192086
v__ista27	.0364115	.0100651	3.62	0.000	.0166842	.0561387
v__ista28	-.0172456	.0075915	-2.27	0.023	-.0321247	-.0023665
v__ista29	.0118096	.0070314	1.68	0.093	-.0019717	.0255909
v__ista30	.0189015	.0073023	2.59	0.010	.0045893	.0332137
v__ista31	.0179218	.0165457	1.08	0.279	-.0145071	.0503507
v__ista32	-.0136388	.0082529	-1.65	0.098	-.0298142	.0025366
v__ista33	.0389932	.008902	4.38	0.000	.0215456	.0564409
v__ista34	-.028468	.0100004	-2.85	0.004	-.0480684	-.0088676
v__ista35	-.0220803	.0172529	-1.28	0.201	-.0558954	.0117347
allg	-.0000858	.0001466	-0.59	0.559	-.0003731	.0002016
contrate	.0172059	.0225008	0.76	0.444	-.0268949	.0613068
candvisits	.0080456	.0011647	6.91	0.000	.0057627	.0103284
_cons	.0252899	.0169455	1.49	0.136	-.0079227	.0585024

gamma


```

                                Replication_Log053007.log
lncpop00 | -.5498073 .0797075 -6.90 0.000 -.7060312 -.3935834
      pq | -10.47912 15.75483 -0.67 0.506 -41.35801 20.39977
      _cons | .4036686 3.858038 0.10 0.917 -7.157947 7.965284

```

Model: log Var(y|x,z) = gamma

```
. regh turn00 turn96 turn92 turn88 senate allg contrate candvisits, var(lncpop00 pq)
```

```

Iteration 0: log likelihood = 315.5721
Iteration 1: log likelihood = 321.60898
Iteration 2: log likelihood = 322.17043
Iteration 3: log likelihood = 322.17333
Iteration 4: log likelihood = 322.17333

```

```

multiplicative heteroscedastic regression      Number of obs   =      128
Estimator: mle/Newton-Raphson                 LR chi2(9)      =     313.515
                                                Prob > chi2     =       0.000
                                                corr2(y,yh)    =       0.8927
Log Likelihood =      322.173                 vwcorr2(y,yh)  =       0.8746

```

```

-----
      turn00 |      Coef.   Std. Err.      z    P>|z|      [95% Conf. Interval]
-----+-----
mean
      turn96 |   .5539415   .0774784     7.15  0.000   .4020866   .7057963
      turn92 |   .3642894   .1022458     3.56  0.000   .1638913   .5646874
      turn88 |  -.1297588   .0671924    -1.93  0.053  -.2614535   .0019358
      senate |   .0948825   .0444214     2.14  0.033   .0078182   .1819468
      allg   |  -.000163    .0002133    -0.76  0.445  -.000581    .0002551
      contrate |   .0562502   .0315505     1.78  0.075  -.0055876   .118088
      candvisits |   .0051018   .0019104     2.67  0.008   .0013574   .0088462
      _cons  |   .0655223   .0188591     3.47  0.001   .0285592   .1024854
-----+-----
gamma
      lncpop00 |  -.1354712   .0787483    -1.72  0.085  -.2898151   .0188726
      pq      | -43.91328   17.43884    -2.52  0.012  -78.09278  -9.733784
      _cons  |   4.573135   4.012339     1.14  0.254  -3.290904  12.43717
-----

```

Model: log Var(y|x,z) = gamma

```
.
.
end of do-file
```