

The following commands in Stata, when used with the appropriate dataset, should produce the results in Table 2 of Dennis, Medoff and Magnera, in the Journal of Socio-Economics. The regression results are only run in order to then be able to use the VIF command to examine multicollinearity. The probit results are what appear in the article

Table 2 – GRH85

```
probit grh85 poole85 ideo8089 defcon85p nonwhite rat1985 margin85 appro85 ///
> fin85 bud85 elder85 medinc85
```

```
Iteration 0: log likelihood = -58.78764
Iteration 1: log likelihood = -44.637748
Iteration 2: log likelihood = -43.839432
Iteration 3: log likelihood = -43.824273
Iteration 4: log likelihood = -43.824263
Probit regression
```

	Number of obs	= 92
	LR chi2(11)	= 29.93
	Prob > chi2	= 0.0016
Log likelihood = -43.824263	Pseudo R2	= 0.2545

grh85	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
poole85	1.84837	.6438534	2.87	0.004	.5864404	3.110299
ideo8089	.0349622	.0349534	1.00	0.317	-.0335451	.1034696
defcon85p	9.83e-07	5.85e-07	1.68	0.093	-1.64e-07	2.13e-06
nonwhite	-.0078372	.020469	-0.38	0.702	-.0479556	.0322813
rat1985	-1.379264	.7765397	-1.78	0.076	-2.901254	.1427261
margin85	-.0122738	.0099074	-1.24	0.215	-.0316919	.0071444
appro85	.3264272	.3609207	0.90	0.366	-.3809644	1.033819
fin85	.3339798	.6124664	0.55	0.586	-.8664322	1.534392
bud85	-.3203248	.3734971	-0.86	0.391	-1.052366	.411716
elder85	-.2241777	.1043689	-2.15	0.032	-.4287371	-.0196184
medinc85	-.1979899	.0782373	-2.53	0.011	-.3513322	-.0446477
_cons	9.664336	3.209732	3.01	0.003	3.373377	15.9553

```
. regress grh85 poole85 ideo8089 defcon85p nonwhite rat1985 margin85 appro85
///
> fin85 bud85 elder85 medinc85
```

	Source	SS	df	MS	Number of obs = 92
	Model	5.76655739	11	.52423249	F( 11, 80) = 2.84
	Residual	14.7877904	80	.18484738	Prob > F = 0.0035
	Total	20.5543478	91	.225871954	R-squared = 0.2806
					Adj R-squared = 0.1816
					Root MSE = .42994

grh85	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
poole85	.4758053	.1572189	3.03	0.003	.1629298	.7886808
ideo8089	.0085565	.0089418	0.96	0.341	-.0092382	.0263513
defcon85p	3.03e-07	1.75e-07	1.73	0.088	-4.62e-08	6.52e-07
nonwhite	-.0015755	.0056106	-0.28	0.780	-.012741	.00959
rat1985	-.3856105	.225644	-1.71	0.091	-.8346563	.0634353
margin85	-.0034224	.0029353	-1.17	0.247	-.0092639	.0024191
appro85	.1025273	.107483	0.95	0.343	-.1113707	.3164253
fin85	.1437738	.1552537	0.93	0.357	-.165191	.4527385
bud85	-.1019828	.1077936	-0.95	0.347	-.316499	.1125333
elder85	-.060389	.0304123	-1.99	0.050	-.1209113	.0001333
medinc85	-.0591546	.0223294	-2.65	0.010	-.1035916	-.0147176
_cons	3.214385	.8855213	3.63	0.000	1.452141	4.976628

```
. vif
```

Variable	VIF	1/VIF
medinc85	3.28	0.304794
ideo8089	2.29	0.436977
defcon85p	2.20	0.454520
rat1985	1.77	0.563673
poole85	1.56	0.639284
elder85	1.52	0.658853
fin85	1.26	0.791844
nonwhite	1.25	0.800969
margin85	1.19	0.843837
appro85	1.17	0.857836
bud85	1.05	0.950373
Mean VIF	1.69	

```
. probit grh85 poole85 ideo8089 defcon85p nonwhite rat1985 margin85 appro85int  
//  
> /  
> fin85int bud85int elder85 medinc85 appro85 fin85 bud85 par85
```

note: fin85int dropped due to collinearity

```
Iteration 0: log likelihood = -58.78764  
Iteration 1: log likelihood = -42.781296  
Iteration 2: log likelihood = -41.283311  
Iteration 3: log likelihood = -41.18518  
Iteration 4: log likelihood = -41.184575  
Iteration 5: log likelihood = -41.184575
```

```
Probit regression                               Number of obs   =           92  
                                                LR chi2(14)    =           35.21  
                                                Prob > chi2    =           0.0014  
Log likelihood = -41.184575                    Pseudo R2      =           0.2994
```

grh85	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
poole85	4.13914	1.514388	2.73	0.006	1.170994 7.107287
ideo8089	.0695428	.0426802	1.63	0.103	-.0141089 .1531945
defcon85p	8.85e-07	6.06e-07	1.46	0.144	-3.03e-07 2.07e-06
nonwhite	-.001537	.0224747	-0.07	0.945	-.0455866 .0425126
rat1985	-1.218842	.8217473	-1.48	0.138	-2.829437 .3917532
margin85	-.0133172	.0101522	-1.31	0.190	-.0332151 .0065807
appro85int	-.1867011	.7703224	-0.24	0.808	-1.696505 1.323103
bud85int	-1.011846	.9125698	-1.11	0.268	-2.80045 .7767581
elder85	-.1866198	.1084956	-1.72	0.085	-.3992673 .0260277
medinc85	-.1684841	.0789178	-2.13	0.033	-.3231601 -.013808
appro85	.6442744	.6153354	1.05	0.295	-.5617608 1.85031
fin85	.6454969	.6880764	0.94	0.348	-.7031081 1.994102
bud85	.2619161	.6799294	0.39	0.700	-1.070721 1.594553
par85	1.704326	.8824593	1.93	0.053	-.0252622 3.433915
_cons	8.011703	3.295242	2.43	0.015	1.553147 14.47026

```

. regress grh85 poole85 ideo8089 defcon85p nonwhite rat1985 margin85 appro85int
/
> //
>      fin85int bud85int elder85 medinc85 appro85 fin85 bud85 par85

```

Source	SS	df	MS	Number of obs =	92
Model	6.46553025	14	.461823589	F( 14, 77) =	2.52
Residual	14.0888176	77	.182971657	Prob > F =	0.0051
				R-squared =	0.3146
				Adj R-squared =	0.1899
Total	20.5543478	91	.225871954	Root MSE =	.42775

grh85	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
poole85	.7968952	.3246516	2.45	0.016	.1504312	1.443359
ideo8089	.0126108	.0095901	1.31	0.192	-.0064854	.0317071
defcon85p	2.84e-07	1.76e-07	1.61	0.110	-6.62e-08	6.33e-07
nonwhite	.0003515	.005808	0.06	0.952	-.0112138	.0119168
rat1985	-.3834246	.2369078	-1.62	0.110	-.8551683	.0883192
margin85	-.0034147	.0029222	-1.17	0.246	-.0092337	.0024042
appro85int	-.0420529	.2126979	-0.20	0.844	-.4655886	.3814828
fin85int	(dropped)					
bud85int	-.3147095	.2347289	-1.34	0.184	-.7821144	.1526954
elder85	-.050011	.0312295	-1.60	0.113	-.1121968	.0121749
medinc85	-.053589	.0224861	-2.38	0.020	-.0983646	-.0088134
appro85	.1664295	.1533626	1.09	0.281	-.1389545	.4718135
fin85	.1790749	.1621949	1.10	0.273	-.1438965	.5020462
bud85	.0415365	.1514098	0.27	0.785	-.2599589	.3430319
par85	.3213225	.2233414	1.44	0.154	-.123407	.766052
_cons	2.839272	.9251285	3.07	0.003	.9971056	4.681438

```

. vif

```

Variable	VIF	1/VIF
poole85	6.74	0.148402
par85	6.26	0.159786
medinc85	3.36	0.297511
appro85int	2.76	0.362305
bud85int	2.68	0.372584
ideo8089	2.66	0.376041
appro85	2.40	0.417076
defcon85p	2.23	0.448486
bud85	2.10	0.476808
rat1985	1.98	0.506158
elder85	1.62	0.618481
fin85	1.39	0.718157
nonwhite	1.35	0.739859
margin85	1.19	0.842769
Mean VIF	2.76	

```

. end of do-file
.

```

Table 2 – GRH87

```
probit grh87 poole87 ideo8089 defcon87p nonwhite rat1987 margin87 appro87 ///
>      fin87 bud87 elder87 medinc87
```

```
Iteration 0:  log likelihood = -61.060786
Iteration 1:  log likelihood = -51.381309
Iteration 2:  log likelihood = -51.001464
Iteration 3:  log likelihood = -50.998501
Iteration 4:  log likelihood = -50.998501
```

```
Probit regression                                Number of obs   =           93
                                                LR chi2(11)    =           20.12
                                                Prob > chi2    =           0.0437
Log likelihood = -50.998501                    Pseudo R2      =           0.1648
```

grh87	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
poole87	.640428	.4731996	1.35	0.176	-.2870261 1.567882
ideo8089	-.0037172	.0290926	-0.13	0.898	-.0607377 .0533032
defcon87p	1.08e-06	5.81e-07	1.86	0.063	-5.96e-08 2.22e-06
nonwhite	-.0054107	.0180447	-0.30	0.764	-.0407776 .0299562
rat1987	-1.691018	.7933621	-2.13	0.033	-3.245979 -.1360566
margin87	-.0098672	.0088946	-1.11	0.267	-.0273003 .0075659
appro87	-.2307053	.336516	-0.69	0.493	-.8902644 .4288539
fin87	.7566688	.4428063	1.71	0.087	-.1112157 1.624553
bud87	-.0387664	.3402203	-0.11	0.909	-.705586 .6280532
elder87	-.0085398	.0966708	-0.09	0.930	-.1980112 .1809315
medinc87	-.1830389	.0690733	-2.65	0.008	-.3184201 -.0476578
_cons	6.710046	3.002638	2.23	0.025	.824984 12.59511

```
. regress grh87 poole87 ideo8089 defcon87p nonwhite rat1987 margin87 appro87
///
>      fin87 bud87 elder87 medinc87
```

Source	SS	df	MS	Number of obs =	93
Model	4.14354146	11	.376685587	F( 11, 81) =	1.75
Residual	17.426351	81	.215140136	Prob > F =	0.0769
Total	21.5698925	92	.234455353	R-squared =	0.1921
				Adj R-squared =	0.0824
				Root MSE =	.46383

grh87	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
poole87	.2034171	.1583195	1.28	0.203	-.111589 .5184231
ideo8089	-.0012311	.0097415	-0.13	0.900	-.0206136 .0181514
defcon87p	3.12e-07	1.87e-07	1.66	0.100	-6.14e-08 6.84e-07
nonwhite	-.0006018	.0060678	-0.10	0.921	-.0126748 .0114712
rat1987	-.5278158	.2444888	-2.16	0.034	-1.014272 -.0413599
margin87	-.0033588	.0030451	-1.10	0.273	-.0094177 .0027
appro87	-.0713569	.1175128	-0.61	0.545	-.3051705 .1624567
fin87	.21116	.1302856	1.62	0.109	-.0480675 .4703874
bud87	-.0274788	.1145554	-0.24	0.811	-.2554082 .2004506
elder87	.000145	.0322499	0.00	0.996	-.0640222 .0643123
medinc87	-.0543392	.0207903	-2.61	0.011	-.0957053 -.012973
_cons	2.506256	.92973	2.70	0.009	.6563854 4.356127

```
. vif
```

Variable	VIF	1/VIF
medinc87	3.21	0.311644
ideo8089	2.43	0.412260
rat1987	2.22	0.450686
defcon87p	2.01	0.496507
elder87	1.44	0.696176
poole87	1.42	0.704811
nonwhite	1.27	0.787764
appro87	1.23	0.813067
fin87	1.19	0.838352
margin87	1.07	0.932488
bud87	1.06	0.946994
Mean VIF	1.69	

```
. probit grh87 poole87 ideo8089 defcon87p nonwhite rat1987 margin87 appro87int  
//  
> /  
> fin87int bud87int elder87 medinc87 appro87 bud87 fin87 par87
```

```
Iteration 0: log likelihood = -61.060786  
Iteration 1: log likelihood = -51.012847  
Iteration 2: log likelihood = -50.583084  
Iteration 3: log likelihood = -50.578858  
Iteration 4: log likelihood = -50.578858
```

```
Probit regression                               Number of obs   =          93  
                                                LR chi2(15)    =          20.96  
                                                Prob > chi2    =          0.1380  
Log likelihood = -50.578858                    Pseudo R2      =          0.1717
```

grh87	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
poole87	.6557826	1.039674	0.63	0.528	-1.381941 2.693506
ideo8089	-.0058992	.0307808	-0.19	0.848	-.0662284 .05443
defcon87p	1.14e-06	5.92e-07	1.92	0.055	-2.41e-08 2.30e-06
nonwhite	-.0044275	.0186203	-0.24	0.812	-.0409226 .0320675
rat1987	-1.789434	.8081046	-2.21	0.027	-3.37329 -.2055783
margin87	-.0107925	.0090255	-1.20	0.232	-.0284822 .0068973
appro87int	.4894323	.6882913	0.71	0.477	-.8595938 1.838459
fin87int	-.0088415	.8801773	-0.01	0.992	-1.733957 1.716274
bud87int	-.427903	.7208442	-0.59	0.553	-1.840732 .9849256
elder87	-.0099922	.1003586	-0.10	0.921	-.2066915 .1867072
medinc87	-.1830469	.0702238	-2.61	0.009	-.3206831 -.0454107
appro87	-.5034632	.5221168	-0.96	0.335	-1.526793 .5198669
bud87	.2152137	.5450844	0.39	0.693	-.853132 1.28356
fin87	.775909	.6787619	1.14	0.253	-.5544398 2.106258
par87	-.0068441	.7761583	-0.01	0.993	-1.528086 1.514398
_cons	6.786559	3.140233	2.16	0.031	.6318146 12.9413

```

. regress grh87 poole87 ideo8089 defcon87p nonwhite rat1987 margin87 appro87int
/
> //
>      fin87int bud87int elder87 medinc87 appro87 bud87 fin87 par87

```

Source	SS	df	MS	Number of obs =	93
Model	4.26992166	15	.284661444	F( 15, 77) =	1.27
Residual	17.2999708	77	.224674946	Prob > F =	0.2438
				R-squared =	0.1980
				Adj R-squared =	0.0417
Total	21.5698925	92	.234455353	Root MSE =	.474

grh87	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
poole87	.2201358	.3634297	0.61	0.546	-.5035452	.9438168
ideo8089	-.0019346	.0106294	-0.18	0.856	-.0231005	.0192313
defcon87p	3.16e-07	1.92e-07	1.65	0.103	-6.59e-08	6.99e-07
nonwhite	-.0004901	.0063778	-0.08	0.939	-.0131899	.0122097
rat1987	-.5515232	.2562013	-2.15	0.034	-1.061685	-.0413613
margin87	-.0035527	.0031349	-1.13	0.261	-.0097951	.0026897
appro87int	.1365893	.2424538	0.56	0.575	-.3461979	.6193766
fin87int	-.0091912	.265575	-0.03	0.972	-.5380186	.5196361
bud87int	-.1117714	.2437103	-0.46	0.648	-.5970606	.3735178
elder87	.0012388	.0340361	0.04	0.971	-.0665358	.0690134
medinc87	-.0533966	.0216809	-2.46	0.016	-.0965688	-.0102244
appro87	-.1489975	.1827842	-0.82	0.417	-.5129673	.2149723
bud87	.0302415	.1728322	0.17	0.862	-.3139113	.3743944
fin87	.2133223	.1920772	1.11	0.270	-.1691523	.5957968
par87	.0128808	.2692487	0.05	0.962	-.5232619	.5490234
_cons	2.478985	.9957194	2.49	0.015	.4962545	4.461716

```

. vif

```

Variable	VIF	1/VIF
par87	7.46	0.134058
poole87	7.16	0.139680
appro87int	3.47	0.288515
medinc87	3.34	0.299266
appro87	2.85	0.350956
fin87int	2.80	0.356932
ideo8089	2.77	0.361605
bud87int	2.76	0.361929
fin87	2.48	0.402810
rat1987	2.33	0.428610
bud87	2.30	0.434473
defcon87p	2.02	0.494183
elder87	1.53	0.652723
nonwhite	1.34	0.744653
margin87	1.09	0.918837
Mean VIF	3.05	

```

.
end of do-file

```

Table 2 – Balanced Budget Amendment

```
probit ballbddole poole95 ideo9099 defcon95p nonwhite rat1995 margin95 appro95
> ///
>      fin95 bud95 elder95 medinc95
```

```
Iteration 0:  log likelihood = -60.697268
Iteration 1:  log likelihood = -30.519058
Iteration 2:  log likelihood =  -25.1891
Iteration 3:  log likelihood = -23.386642
Iteration 4:  log likelihood = -22.96348
Iteration 5:  log likelihood = -22.936969
Iteration 6:  log likelihood = -22.936862
Iteration 7:  log likelihood = -22.936862
```

```
Probit regression                                Number of obs   =           95
                                                LR chi2(11)    =           75.52
                                                Prob > chi2    =           0.0000
Log likelihood = -22.936862                    Pseudo R2      =           0.6221
```

ballbddole	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
poole95	5.813161	1.38466	4.20	0.000	3.099278	8.527045
ideo9099	-.0446794	.03803	-1.17	0.240	-.1192169	.029858
defcon95p	-1.56e-07	9.77e-07	-0.16	0.873	-2.07e-06	1.76e-06
nonwhite	-.0060449	.0340033	-0.18	0.859	-.0726901	.0606003
rat1995	-.3667426	1.544503	-0.24	0.812	-3.393913	2.660428
margin95	.0061907	.012325	0.50	0.615	-.017966	.0303473
appro95	-.5458093	.560787	-0.97	0.330	-1.644932	.553313
fin95	.4726962	.6490424	0.73	0.466	-.7994035	1.744796
bud95	-.1538174	.539557	-0.29	0.776	-1.21133	.903695
elder95	-.0066126	.1620546	-0.04	0.967	-.3242337	.3110086
medinc95	.1241744	.098998	1.25	0.210	-.069858	.3182069
_cons	-2.690837	5.655453	-0.48	0.634	-13.77532	8.393647

note: 0 failures and 3 successes completely determined.

```
. regress ballbddole poole95 ideo9099 defcon95p nonwhite rat1995 margin95  
appro95  
> ///  
> fin95 bud95 elder95 medinc95
```

Source	SS	df	MS	Number of obs =	95
Model	11.7554137	11	1.06867397	F( 11, 83) =	9.37
Residual	9.46563891	83	.114043842	Prob > F =	0.0000
				R-squared =	0.5540
				Adj R-squared =	0.4948
Total	21.2210526	94	.225755879	Root MSE =	.3377

ballbddole	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
poole95	.8531542	.1013341	8.42	0.000	.6516047 1.054704
ideo9099	-.0028119	.0063322	-0.44	0.658	-.0154063 .0097825
defcon95p	3.36e-08	1.64e-07	0.21	0.838	-2.92e-07 3.59e-07
nonwhite	-.0003426	.0046042	-0.07	0.941	-.0095001 .0088149
rat1995	-.0352608	.247949	-0.14	0.887	-.5284213 .4578997
margin95	.0024478	.0020379	1.20	0.233	-.0016054 .0065011
appro95	-.0265787	.0851406	-0.31	0.756	-.19592 .1427625
fin95	.1033713	.1008545	1.02	0.308	-.0972243 .3039669
bud95	-.030591	.0856557	-0.36	0.722	-.2009567 .1397746
elder95	.0014979	.0229304	0.07	0.948	-.0441097 .0471054
medinc95	.0132572	.0161029	0.82	0.413	-.0187708 .0452852
_cons	.1193267	.9078508	0.13	0.896	-1.686352 1.925006

```
. vif
```

Variable	VIF	1/VIF
medinc95	4.65	0.215141
rat1995	3.52	0.283886
ideo9099	2.39	0.417614
defcon95p	2.15	0.465779
poole95	1.44	0.694224
nonwhite	1.39	0.719045
elder95	1.36	0.736558
margin95	1.32	0.757525
fin95	1.30	0.768496
appro95	1.20	0.833105
bud95	1.09	0.919470
Mean VIF	1.98	



```

. probit ballbddole poole95 ideo9099 defcon95p nonwhite rat1995 margin95
appro95i
> nt ///
>      fin95int bud95int elder95 medinc95 appro95 bud95 fin95 par95

```

```

Iteration 0:  log likelihood = -60.697268
Iteration 1:  log likelihood = -29.179162
Iteration 2:  log likelihood = -24.700664
Iteration 3:  log likelihood = -23.038035
Iteration 4:  log likelihood = -22.411883
Iteration 5:  log likelihood = -22.238445
Iteration 6:  log likelihood = -22.187931
Iteration 7:  log likelihood = -22.172756
Iteration 8:  log likelihood = -22.168143
Iteration 9:  log likelihood = -22.166694
Iteration 10: log likelihood = -22.166226
Iteration 11: log likelihood = -22.166072
Iteration 12: log likelihood = -22.166021
Iteration 13: log likelihood = -22.166003
Iteration 14: log likelihood = -22.165997
Iteration 15: log likelihood = -22.165995
Iteration 16: log likelihood = -22.165995
Iteration 17: log likelihood = -22.165994
Iteration 18: log likelihood = -22.165994
Iteration 19: log likelihood = -22.165994
Iteration 20: log likelihood = -22.165994
Iteration 21: log likelihood = -22.165994

```

```

Probit regression                               Number of obs   =           95
                                                LR chi2(15)    =           77.06
                                                Prob > chi2    =           0.0000
Log likelihood = -22.165994                    Pseudo R2      =           0.6348

```

ballbddole	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
poole95	4.51151	2.297331	1.96	0.050	.0088235	9.014197
ideo9099	-.0545517	.0463216	-1.18	0.239	-.1453405	.036237
defcon95p	3.39e-08	1.04e-06	0.03	0.974	-2.01e-06	2.07e-06
nonwhite	.0028152	.0353088	0.08	0.936	-.0663887	.0720191
rat1995	-.9320107	1.735003	-0.54	0.591	-4.332553	2.468532
margin95	.0047722	.0120487	0.40	0.692	-.0188429	.0283873
appro95int	5.065718	1.388189	3.65	0.000	2.344917	7.786519
fin95int	.0402866	.6630344	0.06	0.952	-1.259237	1.33981
bud95int	-5.481609	.5896714	-9.30	0.000	-6.637343	-4.325874
elder95	.0007604	.1690071	0.00	0.996	-.3304875	.3320083
medinc95	.0896439	.1027723	0.87	0.383	-.1117862	.291074
appro95	-5.521114	1.340061	-4.12	0.000	-8.147585	-2.894643
bud95	5.165861	.	.	.	.	.
fin95	.4111796	.	.	.	.	.
par95	-5.390035	.	.	.	.	.
_cons	3.612387	5.745539	0.63	0.530	-7.648663	14.87344

note: 0 failures and 42 successes completely determined.

```
. regress ballbddole poole95 ideo9099 defcon95p nonwhite rat1995 margin95
appro95
> int ///
>      fin95int bud95int elder95 medinc95 appro95 bud95 fin95 par95
```

Source	SS	df	MS	Number of obs =	95
Model	12.6278623	15	.84185749	F( 15, 79) =	7.74
Residual	8.59319029	79	.108774561	Prob > F	= 0.0000
Total	21.2210526	94	.225755879	R-squared	= 0.5951
				Adj R-squared	= 0.5182
				Root MSE	= .32981

ballbddole	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
poole95	.3378119	.2272207	1.49	0.141	-.1144597 .7900834
ideo9099	-.0075244	.0064061	-1.17	0.244	-.0202755 .0052267
defcon95p	4.73e-08	1.61e-07	0.29	0.769	-2.72e-07 3.67e-07
nonwhite	.0019027	.0046081	0.41	0.681	-.0072696 .0110749
rat1995	-.1304931	.2447684	-0.53	0.595	-.6176924 .3567062
margin95	.0018199	.0020184	0.90	0.370	-.0021976 .0058374
appro95int	-.1186935	.165932	-0.72	0.477	-.4489729 .2115859
fin95int	.062828	.185368	0.34	0.736	-.3061378 .4317939
bud95int	-.1209026	.1676926	-0.72	0.473	-.4546864 .2128812
elder95	.0000981	.0224519	0.00	0.997	-.0445913 .0447874
medinc95	.009001	.015948	0.56	0.574	-.0227426 .0407447
appro95	.0015821	.1149558	0.01	0.989	-.2272317 .2303959
bud95	.0252869	.1122248	0.23	0.822	-.1980909 .2486647
fin95	.0573003	.131463	0.44	0.664	-.2043703 .3189709
par95	-.3811155	.189596	-2.01	0.048	-.7584968 -.0037341
_cons	.4903351	.9076263	0.54	0.591	-1.31625 2.29692

```
. vif
```

Variable	VIF	1/VIF
par95	7.81	0.128106
poole95	7.59	0.131695
medinc95	4.78	0.209206
rat1995	3.60	0.277852
appro95int	2.65	0.376818
fin95int	2.57	0.388544
ideo9099	2.57	0.389173
fin95	2.32	0.431400
bud95int	2.31	0.432319
appro95	2.29	0.435880
defcon95p	2.17	0.461676
bud95	1.96	0.510891
nonwhite	1.46	0.684640
elder95	1.36	0.732788
margin95	1.36	0.736544
Mean VIF	3.12	

```
. probit ballbddole poole95 ideo9099 defcon95p nonwhite rat1995 margin95
appro95i
> nt ///
>      fin95int bud95int elder95 medinc95
```

```
Iteration 0:  log likelihood = -60.697268
Iteration 1:  log likelihood = -30.127145
Iteration 2:  log likelihood = -25.124102
Iteration 3:  log likelihood = -23.594811
Iteration 4:  log likelihood = -23.277319
Iteration 5:  log likelihood = -23.26172
Iteration 6:  log likelihood = -23.261682
```

```
Probit regression                                Number of obs   =          95
                                                LR chi2(11)    =          74.87
                                                Prob > chi2    =          0.0000
Log likelihood = -23.261682                    Pseudo R2      =          0.6168
```

ballbddole	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
poole95	5.330261	1.341401	3.97	0.000	2.701164 7.959358
ideo9099	-.047979	.0381786	-1.26	0.209	-.1228077 .0268496
defcon95p	-3.39e-08	9.23e-07	-0.04	0.971	-1.84e-06 1.77e-06
nonwhite	-.0017075	.0335881	-0.05	0.959	-.067539 .064124
rat1995	-.4966454	1.489961	-0.33	0.739	-3.416915 2.423624
margin95	.0069896	.0122152	0.57	0.567	-.0169517 .0309309
appro95int	-.4552442	.609091	-0.75	0.455	-1.649041 .7385522
fin95int	.4333787	.6460894	0.67	0.502	-.8329334 1.699691
bud95int	-.289631	.5920685	-0.49	0.625	-1.450064 .8708019
elder95	.0064276	.1583168	0.04	0.968	-.3038675 .3167228
medinc95	.1166728	.0968157	1.21	0.228	-.0730825 .306428
_cons	-2.8005	5.585946	-0.50	0.616	-13.74875 8.147754

note: 0 failures and 1 success completely determined.

```
. regress ballbddole poole95 ideo9099 defcon95p nonwhite rat1995 margin95
appro95
> int ///
```

```
>      fin95int bud95int elder95 medinc95
Source |      SS      df      MS      Number of obs =          95
-----+-----+-----+-----+-----
Model | 12.0312077    11  1.09374616  F( 11, 83) =          9.88
Residual | 9.18984492    83  .110721023  Prob > F      =          0.0000
-----+-----+-----+-----+-----
Total | 21.2210526    94  .225755879  R-squared     =          0.5669
                                           Adj R-squared =          0.5096
                                           Root MSE     =          .33275
```

ballbddole	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
poole95	.7700945	.1170599	6.58	0.000	.5372671 1.002922
ideo9099	-.0040353	.0062491	-0.65	0.520	-.0164646 .008394
defcon95p	-1.40e-08	1.58e-07	-0.09	0.930	-3.29e-07 3.01e-07
nonwhite	.0008464	.0046251	0.18	0.855	-.0083528 .0100455
rat1995	-.0242263	.2414554	-0.10	0.920	-.5044714 .4560187
margin95	.0020792	.0020246	1.03	0.307	-.0019477 .006106
appro95int	-.1817132	.1187642	-1.53	0.130	-.4179304 .054504
fin95int	.0369449	.1358983	0.27	0.786	-.2333514 .3072412
bud95int	-.1173539	.1259229	-0.93	0.354	-.3678095 .1331017
elder95	.0040407	.0225078	0.18	0.858	-.0407263 .0488077
medinc95	.014759	.0158648	0.93	0.355	-.0167955 .0463134
_cons	.0553732	.8934235	0.06	0.951	-1.72161 1.832357

. vif

Variable	VIF	1/VIF
medinc95	4.65	0.215188
rat1995	3.44	0.290639
ideo9099	2.40	0.416291
defcon95p	2.07	0.483703
poole95	1.98	0.505072
nonwhite	1.45	0.691786
fin95int	1.36	0.735842
elder95	1.35	0.742202
margin95	1.34	0.745132
appro95int	1.34	0.748727
bud95int	1.28	0.780414
Mean VIF	2.06	

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