

```

log: C:\Documents and Settings\Arindrajit Dube\My
Documents\Dissertation\Empirical\Outsourcing\Regs_April2
> 006.log
log type: text
opened on: 21 Apr 2006, 18:36:11

. drop if esr==2
(6484 observations deleted)

. drop if lfsr89==2
(5450 observations deleted)

. drop if lfsr94==2
(5625 observations deleted)

.
. gen union = 0 if unionmm!=. | unioncov !=.
(24012 missing values generated)

. replace union = 2-min(unionmm, unioncov) if (unionmm!=. | unioncov !=.)
(40706 real changes made)

. gen unionout = union*out
out not found
r(111);

end of do-file
r(111);

. do "C:\DOCUME~1\ARINDR~1\LOCALS~1\Temp\STD0g000000.tmp"

. set more off

.
end of do-file

. do "C:\DOCUME~1\ARINDR~1\LOCALS~1\Temp\STD0g000000.tmp"

. gen female = 1-sex

.
. drop PSC

. gen PSC = 0

. replace PSC= 1 if ind80==740 & year>1991
(3707 real changes made)

. replace PSC= 1 if ind80==741 & year<=1991
(3604 real changes made)

.
. gen latino = (ethnic<8)

. gen black = race ==2 & latino==0

.
. gen PT = 0 if uhourse>0 & uhourse~=.
(5930 missing values generated)

. replace PT = 1 if uhourse<25 & uhourse>0
(65423 real changes made)

.
. gen PT2 = 0

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```
. replace PT2 = 1 if ftpt79>1 & ftpt79~=.
(34350 real changes made)

. replace PT2 = 1 if ftpt89>2 & ftpt89~=.
(29125 real changes made)

. replace PT2 = 1 if ftpt94>2 & ftpt94~=.
(46189 real changes made)

. replace PT2 = . if esr~=.
(243001 real changes made, 243001 to missing)

.
. gen CPI =99.6/176.2 if year ==1983
(346878 missing values generated)

. replace CPI = 103.9/176.2 if year ==1984
(19910 real changes made)

. replace CPI = 107.6/176.2 if year ==1985
(20779 real changes made)

. replace CPI = 109.6/176.2 if year ==1986
(20936 real changes made)

. replace CPI = 113.6/176.2 if year ==1987
(21515 real changes made)

. replace CPI = 118.3/176.2 if year ==1988
(20737 real changes made)

. replace CPI = 124.0/176.2 if year ==1989
(20950 real changes made)

. replace CPI = 130.7/176.2 if year ==1990
(22335 real changes made)

. replace CPI = 136.2/176.2 if year ==1991
(21789 real changes made)

. replace CPI = 140.3/176.2 if year ==1992
(21970 real changes made)

. replace CPI = 144.5/176.2 if year ==1993
(21299 real changes made)

. replace CPI = 148.2/176.2 if year ==1994
(20673 real changes made)

. replace CPI = 152.4/176.2 if year ==1995
(20447 real changes made)

. replace CPI = 156.9/176.2 if year ==1996
(18450 real changes made)

. replace CPI = 160.5/176.2 if year ==1997
(18746 real changes made)

. replace CPI = 163.0/176.2 if year ==1998
(18623 real changes made)

. replace CPI = 166.6/176.2 if year ==1999
(18662 real changes made)

. replace CPI = 172.2/176.2 if year ==2000
(19057 real changes made)
```

```

.
.
. gen rwage = (exp(lnwage)/CPI)/100
.
. replace PSCgrd = PSC*guards
(3329 real changes made)
.
. xi: areg lnwage janitor BSC BSCjan union college highschl sex i.race
i.ethnic i.occ80 age agesq i.year [pw=e
> arnwt] if esr==1 & (janitor==1 | sec==1), a(state)
i.race          _Irace_1-5          (naturally coded; _Irace_1 omitted)
i.ethnic        _Iethnic_1-10       (naturally coded; _Iethnic_1 omitted)
i.occ80         _Ioacc80_313-453    (naturally coded; _Ioacc80_313 omitted)
i.year          _Iyear_1983-2000    (naturally coded; _Iyear_1983 omitted)

```

Regression with robust standard errors

Number of obs = 113459
F(73,113335) = 945.92
Prob > F = 0.0000
R-squared = 0.4113
Adj R-squared = 0.4107
Root MSE = .29298

lnwage	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
janitors	-.2268248	.0046594	-48.68	0.000	-.2359571	-.2176925
BSC	-.0268514	.0299123	-0.90	0.369	-.085479	.0317762
BSCjan	-.0685597	.030777	-2.23	0.026	-.1288821	-.0082373
union	.2638527	.0032354	81.55	0.000	.2575114	.2701939
college	.016319	.0021622	7.55	0.000	.0120812	.0205568
highschl	.0916203	.003701	24.76	0.000	.0843664	.0988743
sex	.1176154	.0031769	37.02	0.000	.1113887	.1238421
_Irace_2	-.0248877	.0034406	-7.23	0.000	-.0316312	-.0181442
_Irace_3	-.0276513	.0071091	-3.89	0.000	-.041585	-.0137177
_Irace_4	(dropped)					
_Irace_5	(dropped)					
_Iethnic_2	.0055697	.037445	0.15	0.882	-.0678218	.0789613
_Iethnic_3	-.0543279	.0116893	-4.65	0.000	-.0772388	-.0314171
_Iethnic_4	.0390589	.0135258	2.89	0.004	.0125485	.0655693
_Iethnic_5	.0371265	.0158528	2.34	0.019	.0060552	.0681977
_Iethnic_6	-.0080277	.0142291	-0.56	0.573	-.0359165	.0198611
_Iethnic_7	.0308018	.0155068	1.99	0.047	.0004088	.0611949
_Iethnic_8	.0412189	.0066467	6.20	0.000	.0281915	.0542464
_Iethnic_9	.0229238	.0105393	2.18	0.030	.002267	.0435806
_Iethnic_10	(dropped)					
_Ioacc80_314	.1133465	.0280017	4.05	0.000	.0584636	.1682294
_Ioacc80_315	-.050526	.0048704	-10.37	0.000	-.0600719	-.0409802
_Ioacc80_316	-.0559245	.0093745	-5.97	0.000	-.0742984	-.0375505
_Ioacc80_317	-.2237811	.0106118	-21.09	0.000	-.2445801	-.202982
_Ioacc80_318	.1537934	.0154663	9.94	0.000	.1234796	.1841072
_Ioacc80_319	-.1268347	.0045198	-28.06	0.000	-.1356934	-.1179761
_Ioacc80_323	-.1449859	.008851	-16.38	0.000	-.1623337	-.127638
_Ioacc80_325	-.2410808	.0502816	-4.79	0.000	-.3396319	-.1425298
_Ioacc80_326	.1051558	.0311791	3.37	0.001	.0440452	.1662665
_Ioacc80_327	.0721728	.0101384	7.12	0.000	.0523017	.0920438
_Ioacc80_328	.0791959	.0168692	4.69	0.000	.0461324	.1122594
_Ioacc80_329	-.2880959	.0099688	-28.90	0.000	-.3076346	-.2685571
_Ioacc80_335	-.1315589	.0069005	-19.07	0.000	-.1450838	-.1180339
_Ioacc80_336	.0002104	.0116726	0.02	0.986	-.0226678	.0230885
_Ioacc80_337	-.0191771	.0038983	-4.92	0.000	-.0268177	-.0115364
_Ioacc80_338	.0634339	.0100286	6.33	0.000	.0437781	.0830897
_Ioacc80_339	.0166042	.0090396	1.84	0.066	-.0011132	.0343217
_Ioacc80_343	-.04133	.017693	-2.34	0.019	-.076008	-.0066519
_Ioacc80_344	-.0543981	.0193186	-2.82	0.005	-.0922623	-.0165339
_Ioacc80_345	-.0895089	.0261748	-3.42	0.001	-.1408112	-.0382067

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_Iocc80_346	-.2003795	.0421461	-4.75	0.000	-.2829852	-.1177739
_Iocc80_347	-.11279	.0185302	-6.09	0.000	-.1491089	-.0764711
_Iocc80_348	-.0484392	.0085785	-5.65	0.000	-.065253	-.0316254
_Iocc80_349	.0508778	.0490018	1.04	0.299	-.0451649	.1469205
_Iocc80_353	-.1972776	.0669336	-2.95	0.003	-.3284665	-.0660887
_Iocc80_354	.1987624	.0075242	26.42	0.000	.1840151	.2135097
_Iocc80_355	.1721446	.0077137	22.32	0.000	.1570259	.1872633
_Iocc80_356	-.1300267	.0099568	-13.06	0.000	-.1495418	-.1105116
_Iocc80_357	-.1424717	.0139472	-10.22	0.000	-.1698079	-.1151354
_Iocc80_359	-.0092097	.0115948	-0.79	0.427	-.0319354	.013516
_Iocc80_363	.1550121	.0110566	14.02	0.000	.1333415	.1766828
_Iocc80_364	-.0368266	.0064104	-5.74	0.000	-.0493909	-.0242624
_Iocc80_365	-.0388499	.0062229	-6.24	0.000	-.0510468	-.026653
_Iocc80_366	.0754903	.0180553	4.18	0.000	.0401021	.1108785
_Iocc80_368	-.0536987	.0157211	-3.42	0.001	-.0845119	-.0228855
_Iocc80_369	.0289525	.1293249	0.22	0.823	-.2245224	.2824274
_Iocc80_373	-.0225302	.0132376	-1.70	0.089	-.0484757	.0034153
_Iocc80_374	-.1601104	.0196334	-8.15	0.000	-.1985916	-.1216291
_Iocc80_375	.1160943	.0113699	10.21	0.000	.0938094	.1383791
_Iocc80_376	.0507517	.0084512	6.01	0.000	.0341875	.067316
_Iocc80_377	-.0099707	.0146086	-0.68	0.495	-.0386033	.0186618
_Iocc80_378	-.0050613	.0141309	-0.36	0.720	-.0327576	.0226349
_Iocc80_379	-.0966365	.0054327	-17.79	0.000	-.1072845	-.0859885
_Iocc80_383	-.101149	.0052063	-19.43	0.000	-.1113532	-.0909447
_Iocc80_384	-.0027027	.0258988	-0.10	0.917	-.053464	.0480587
_Iocc80_385	.0085474	.0062716	1.36	0.173	-.0037447	.0208396
_Iocc80_386	.0334102	.0162354	2.06	0.040	.0015891	.0652313
_Iocc80_387	-.2772775	.0069241	-40.05	0.000	-.2908486	-.2637064
_Iocc80_389	-.0108755	.0059425	-1.83	0.067	-.0225227	.0007716
_Iocc80_426	(dropped)					
_Iocc80_453	(dropped)					
age	.0409487	.0004343	94.29	0.000	.0400975	.0417999
agesq	-.0004372	5.47e-06	-80.00	0.000	-.0004479	-.0004265
_Iyear_1984	.0456409	.0034425	13.26	0.000	.0388938	.0523881
_Iyear_1985	.0796467	.0034122	23.34	0.000	.0729588	.0863347
_Iyear_1986	.1087822	.0034075	31.92	0.000	.1021036	.1154608
_Iyear_1987	.1384383	.0034319	40.34	0.000	.1317118	.1451649
_Iyear_1988	.1758517	.0035428	49.64	0.000	.1689078	.1827956
_Iyear_1989	(dropped)					
_Iyear_1990	(dropped)					
_Iyear_1991	(dropped)					
_Iyear_1992	(dropped)					
_Iyear_1993	(dropped)					
_Iyear_1994	(dropped)					
_Iyear_1995	(dropped)					
_Iyear_1996	(dropped)					
_Iyear_1997	(dropped)					
_Iyear_1998	(dropped)					
_Iyear_1999	(dropped)					
_Iyear_2000	(dropped)					
_cons	5.352595	.0108339	494.06	0.000	5.331361	5.37383

state | absorbed (51 categories)

```
. xi: areg lnwage janitor BSC BSCjan PT union college highschl sex i.race
i.ethnic i.occ80 age agesq i.year [p
> w=earnwt] if esr==1 & (janitor==1 | sec==1), a(state)
i.race      _Irace_1-5      (naturally coded; _Irace_1 omitted)
i.ethnic    _Iethnic_1-10  (naturally coded; _Iethnic_1 omitted)
i.occ80     _Iocc80_313-453 (naturally coded; _Iocc80_313 omitted)
i.year      _Iyear_1983-2000 (naturally coded; _Iyear_1983 omitted)
```

Regression with robust standard errors

Number of obs = 113355
F(74,113230) = 1023.44
Prob > F = 0.0000
R-squared = 0.4379
Adj R-squared = 0.4373
Root MSE = .28626

lnwage	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
janitors	-.207993	.004566	-45.55	0.000	-.2169423	-.1990437
BSC	-.0129861	.0296847	-0.44	0.662	-.0711676	.0451955
BSCjan	-.060164	.0305243	-1.97	0.049	-.1199912	-.0003368
PT	-.1679961	.0025391	-66.16	0.000	-.1729727	-.1630196
union	.240993	.0032246	74.74	0.000	.2346728	.2473132
college	.0284565	.0021173	13.44	0.000	.0243066	.0326064
highsch1	.0835166	.0036425	22.93	0.000	.0763773	.0906559
sex	.107176	.0031137	34.42	0.000	.1010732	.1132787
_Irace_2	-.0369094	.0033816	-10.91	0.000	-.0435374	-.0302815
_Irace_3	-.031783	.0069871	-4.55	0.000	-.0454776	-.0180883
_Irace_4	(dropped)					
_Irace_5	(dropped)					
_Iethnic_2	.0043699	.0354895	0.12	0.902	-.065189	.0739287
_Iethnic_3	-.0634572	.0116736	-5.44	0.000	-.0863373	-.0405771
_Iethnic_4	.0349425	.0133237	2.62	0.009	.0088282	.0610569
_Iethnic_5	.0314829	.0156361	2.01	0.044	.0008363	.0621295
_Iethnic_6	-.0099361	.0140952	-0.70	0.481	-.0375626	.0176903
_Iethnic_7	.0324728	.0152768	2.13	0.034	.0025305	.0624151
_Iethnic_8	.047624	.0065241	7.30	0.000	.0348369	.0604111
_Iethnic_9	.0263714	.0102947	2.56	0.010	.0061939	.0465489
_Iethnic_10	(dropped)					
_Iocc80_314	.1083792	.0274695	3.95	0.000	.0545394	.162219
_Iocc80_315	-.0395156	.0046572	-8.48	0.000	-.0486437	-.0303875
_Iocc80_316	-.0430609	.009142	-4.71	0.000	-.0609791	-.0251426
_Iocc80_317	-.2296644	.0104633	-21.95	0.000	-.2501724	-.2091564
_Iocc80_318	.152493	.0153384	9.94	0.000	.1224301	.182556
_Iocc80_319	-.1130852	.0044103	-25.64	0.000	-.1217294	-.1044411
_Iocc80_323	-.1220202	.0085477	-14.28	0.000	-.1387735	-.105267
_Iocc80_325	-.2393355	.0500219	-4.78	0.000	-.3373777	-.1412934
_Iocc80_326	.0977642	.030075	3.25	0.001	.0388176	.1567107
_Iocc80_327	.0706084	.0099778	7.08	0.000	.0510521	.0901647
_Iocc80_328	.0718612	.0164672	4.36	0.000	.0395857	.1041367
_Iocc80_329	-.2154726	.0095566	-22.55	0.000	-.2342033	-.1967418
_Iocc80_335	-.1108223	.0065711	-16.87	0.000	-.1237016	-.097943
_Iocc80_336	.0022948	.0114747	0.20	0.841	-.0201955	.024785
_Iocc80_337	-.0180569	.0038262	-4.72	0.000	-.0255561	-.0105576
_Iocc80_338	.0546204	.0099379	5.50	0.000	.0351423	.0740986
_Iocc80_339	.0077889	.0089158	0.87	0.382	-.009686	.0252638
_Iocc80_343	-.0453998	.0174811	-2.60	0.009	-.0796626	-.011137
_Iocc80_344	-.0483079	.0190983	-2.53	0.011	-.0857401	-.0108756
_Iocc80_345	-.0737652	.023708	-3.11	0.002	-.1202325	-.0272979
_Iocc80_346	-.1799606	.0392993	-4.58	0.000	-.2569868	-.1029345
_Iocc80_347	-.1143503	.0181156	-6.31	0.000	-.1498566	-.0788441
_Iocc80_348	-.042258	.0084293	-5.01	0.000	-.0587793	-.0257367
_Iocc80_349	.0354565	.0498389	0.71	0.477	-.062227	.1331399
_Iocc80_353	-.2012731	.0666531	-3.02	0.003	-.3319121	-.0706341
_Iocc80_354	.2108949	.0075127	28.07	0.000	.1961702	.2256196
_Iocc80_355	.1832765	.0077349	23.69	0.000	.1681162	.1984368
_Iocc80_356	-.1194676	.0097629	-12.24	0.000	-.1386028	-.1003324
_Iocc80_357	-.1235829	.0134637	-9.18	0.000	-.1499716	-.0971942
_Iocc80_359	-.0158194	.0114121	-1.39	0.166	-.0381868	.0065481
_Iocc80_363	.144054	.0108546	13.27	0.000	.1227791	.1653289
_Iocc80_364	-.0438985	.0063739	-6.89	0.000	-.0563912	-.0314057
_Iocc80_365	-.0358388	.0060458	-5.93	0.000	-.0476884	-.0239892
_Iocc80_366	.0735728	.0178535	4.12	0.000	.0385802	.1085654
_Iocc80_368	-.0530744	.0155364	-3.42	0.001	-.0835255	-.0226234
_Iocc80_369	.0734922	.1262287	0.58	0.560	-.173914	.3208985
_Iocc80_373	-.0216614	.012821	-1.69	0.091	-.0467903	.0034675
_Iocc80_374	-.160616	.0189148	-8.49	0.000	-.1976887	-.1235434
_Iocc80_375	.1007635	.011305	8.91	0.000	.0786059	.1229211
_Iocc80_376	.0409193	.0083064	4.93	0.000	.0246389	.0571997
_Iocc80_377	-.0143378	.0147612	-0.97	0.331	-.0432695	.0145939
_Iocc80_378	-.0088217	.0141004	-0.63	0.532	-.0364583	.0188149

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_Iocc80_379 | -.0830534 .0052659 -15.77 0.000 -.0933745 -.0727324
_Iocc80_383 | -.0958639 .0052538 -18.25 0.000 -.1061613 -.0855666
_Iocc80_384 | .0003876 .0257469 0.02 0.988 -.050076 .0508511
_Iocc80_385 | .0040763 .0060687 0.67 0.502 -.0078184 .0159709
_Iocc80_386 | .0357358 .0158831 2.25 0.024 .0046052 .0668665
_Iocc80_387 | -.2332124 .0070026 -33.30 0.000 -.2469374 -.2194874
_Iocc80_389 | -.0057188 .0057818 -0.99 0.323 -.0170509 .0056134
_Iocc80_426 | (dropped)
_Iocc80_453 | (dropped)
    age | .0351497 .0004344 80.91 0.000 .0342982 .0360012
    agesq | -.0003652 5.48e-06 -66.67 0.000 -.0003759 -.0003544
_Iyear_1984 | .0435072 .0033614 12.94 0.000 .036919 .0500954
_Iyear_1985 | .0772386 .0033344 23.16 0.000 .0707033 .083774
_Iyear_1986 | .1071751 .0033304 32.18 0.000 .1006475 .1137026
_Iyear_1987 | .1359245 .0033496 40.58 0.000 .1293594 .1424897
_Iyear_1988 | .1734196 .0034653 50.04 0.000 .1666277 .1802115
_Iyear_1989 | (dropped)
_Iyear_1990 | (dropped)
_Iyear_1991 | (dropped)
_Iyear_1992 | (dropped)
_Iyear_1993 | (dropped)
_Iyear_1994 | (dropped)
_Iyear_1995 | (dropped)
_Iyear_1996 | (dropped)
_Iyear_1997 | (dropped)
_Iyear_1998 | (dropped)
_Iyear_1999 | (dropped)
_Iyear_2000 | (dropped)
    _cons | 5.486796 .0107898 508.52 0.000 5.465649 5.507944
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state | absorbed (51 categories)

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. xi: areg lnwage guards PSC PSCgrd union college highschl sex i.race i.ethnic
i.occ80 age agesq i.year [pw=ea
> rnw] if esr==1 & (guards==1 | sec==1), a(state)
i.race      _Irace_1-5      (naturally coded; _Irace_1 omitted)
i.ethnic    _Iethnic_1-10  (naturally coded; _Iethnic_1 omitted)
i.occ80     _Iocc80_313-453 (naturally coded; _Iocc80_313 omitted)
i.year      _Iyear_1983-2000 (naturally coded; _Iyear_1983 omitted)

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Regression with robust standard errors

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Number of obs = 102400
F( 73,102276) = 811.58
Prob > F      = 0.0000
R-squared     = 0.3975
Adj R-squared = 0.3967
Root MSE     = .29154

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lnwage |          Coef.      Robust          t      P>|t|      [95% Conf. Interval]
-----+-----
guards | -.1244579   .0082824   -15.03   0.000   -.1406913   -.1082245
PSC    | -.0516899   .0262004    -1.97   0.049   -.1030422   -.0003375
PSCgrd | -.1632279   .0279977    -5.83   0.000   -.218103    -.1083529
union  | .2454002   .0034823   70.47   0.000   .2385749    .2522256
college | .0172013   .0022071    7.79   0.000   .0128754    .0215272
highschl | .1053871   .0044326   23.78   0.000   .0966992    .114075
sex    | .1052997   .0036127   29.15   0.000   .0982188    .1123806
_Irace_2 | -.0062482   .0037492   -1.67   0.096   -.0135967   .0011002
_Irace_3 | -.0304144   .0073137   -4.16   0.000   -.0447491   -.0160798
_Irace_4 | (dropped)
_Irace_5 | (dropped)
_Iethnic_2 | -.0287417   .03619     -0.79   0.427   -.0996736   .0421903
_Iethnic_3 | -.0434039   .0140436   -3.09   0.002   -.0709292   -.0158787
_Iethnic_4 | .0242708   .0143999    1.69   0.092   -.0039528   .0524944
_Iethnic_5 | .0288526   .017745    1.63   0.104   -.0059274   .0636325
_Iethnic_6 | -.0045591   .0159649   -0.29   0.775   -.0358501   .0267318

```

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_Iethnic_7	.0245421	.0164216	1.49	0.135	-.0076441	.0567283
_Iethnic_8	.0385621	.0071242	5.41	0.000	.0245988	.0525254
_Iethnic_9	.0101699	.0108684	0.94	0.349	-.0111321	.0314719
_Iethnic_10	(dropped)					
_Iocc80_314	.1196957	.0278585	4.30	0.000	.0650933	.174298
_Iocc80_315	-.050832	.0048554	-10.47	0.000	-.0603485	-.0413156
_Iocc80_316	-.0547136	.0094001	-5.82	0.000	-.0731376	-.0362896
_Iocc80_317	-.220085	.0104964	-20.97	0.000	-.2406578	-.1995122
_Iocc80_318	.1591348	.0154617	10.29	0.000	.1288301	.1894395
_Iocc80_319	-.1266256	.0045126	-28.06	0.000	-.1354702	-.1177811
_Iocc80_323	-.1424444	.0087896	-16.21	0.000	-.159672	-.1252169
_Iocc80_325	-.2409099	.0504083	-4.78	0.000	-.3397095	-.1421103
_Iocc80_326	.1060959	.0308777	3.44	0.001	.0455761	.1666157
_Iocc80_327	.0778028	.0101846	7.64	0.000	.0578411	.0977644
_Iocc80_328	.0789985	.0167808	4.71	0.000	.0461084	.1118886
_Iocc80_329	-.2837594	.0099364	-28.56	0.000	-.3032347	-.2642842
_Iocc80_335	-.1303907	.0069116	-18.87	0.000	-.1439373	-.116844
_Iocc80_336	.0039676	.0117065	0.34	0.735	-.0189771	.0269123
_Iocc80_337	-.0174684	.0038929	-4.49	0.000	-.0250984	-.0098384
_Iocc80_338	.0673288	.0100595	6.69	0.000	.0476122	.0870454
_Iocc80_339	.0181953	.0090094	2.02	0.043	.000537	.0358536
_Iocc80_343	-.0373539	.0177389	-2.11	0.035	-.0721219	-.002586
_Iocc80_344	-.0514154	.0193134	-2.66	0.008	-.0892693	-.0135615
_Iocc80_345	-.083321	.0263317	-3.16	0.002	-.1349308	-.0317111
_Iocc80_346	-.1957245	.0415785	-4.71	0.000	-.2772179	-.1142312
_Iocc80_347	-.1091617	.0185714	-5.88	0.000	-.1455614	-.072762
_Iocc80_348	-.0420308	.008652	-4.86	0.000	-.0589887	-.0250729
_Iocc80_349	.0580855	.0509032	1.14	0.254	-.0416842	.1578552
_Iocc80_353	-.2005661	.0680339	-2.95	0.003	-.3339117	-.0672206
_Iocc80_354	.2157119	.0076593	28.16	0.000	.2006998	.2307239
_Iocc80_355	.194802	.0079033	24.65	0.000	.1793117	.2102924
_Iocc80_356	-.1225258	.0100274	-12.22	0.000	-.1421794	-.1028722
_Iocc80_357	-.1318384	.0139988	-9.42	0.000	-.1592758	-.1044009
_Iocc80_359	.0034625	.0116971	0.30	0.767	-.0194637	.0263887
_Iocc80_363	.1637034	.0110756	14.78	0.000	.1419954	.1854113
_Iocc80_364	-.0240332	.0065473	-3.67	0.000	-.0368658	-.0112005
_Iocc80_365	-.0280828	.0063092	-4.45	0.000	-.0404489	-.0157168
_Iocc80_366	.0944658	.018196	5.19	0.000	.0588019	.1301296
_Iocc80_368	-.0419012	.0158456	-2.64	0.008	-.0729583	-.0108441
_Iocc80_369	.0332315	.1282156	0.26	0.795	-.2180693	.2845324
_Iocc80_373	-.0159027	.0133481	-1.19	0.234	-.0420648	.0102593
_Iocc80_374	-.1524898	.0198303	-7.69	0.000	-.1913569	-.1136228
_Iocc80_375	.1146691	.0113743	10.08	0.000	.0923755	.1369627
_Iocc80_376	.0511753	.0084502	6.06	0.000	.034613	.0677376
_Iocc80_377	-.0064708	.0145318	-0.45	0.656	-.0349531	.0220114
_Iocc80_378	-.0021275	.0140801	-0.15	0.880	-.0297244	.0254694
_Iocc80_379	-.093528	.0054306	-17.22	0.000	-.1041719	-.0828841
_Iocc80_383	-.1017625	.0051952	-19.59	0.000	-.111945	-.0915799
_Iocc80_384	.0012769	.0261773	0.05	0.961	-.0500304	.0525841
_Iocc80_385	.0071318	.0062587	1.14	0.255	-.0051353	.0193989
_Iocc80_386	.0375706	.0162448	2.31	0.021	.005731	.0694102
_Iocc80_387	-.2729798	.006898	-39.57	0.000	-.2864998	-.2594599
_Iocc80_389	-.007872	.0059301	-1.33	0.184	-.019495	.003751
_Iocc80_426	(dropped)					
_Iocc80_453	(dropped)					
age	.0419265	.0004713	88.96	0.000	.0410028	.0428502
agesq	-.0004528	5.96e-06	-76.00	0.000	-.0004645	-.0004411
_Iyear_1984	.0457221	.0036315	12.59	0.000	.0386043	.0528398
_Iyear_1985	.0801368	.0035849	22.35	0.000	.0731104	.0871633
_Iyear_1986	.1122421	.0035694	31.45	0.000	.1052462	.119238
_Iyear_1987	.1409802	.0035988	39.17	0.000	.1339265	.1480338
_Iyear_1988	.1800721	.0037132	48.50	0.000	.1727943	.1873499
_Iyear_1989	(dropped)					
_Iyear_1990	(dropped)					
_Iyear_1991	(dropped)					
_Iyear_1992	(dropped)					
_Iyear_1993	(dropped)					
_Iyear_1994	(dropped)					

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_Iyear_1995	(dropped)					
_Iyear_1996	(dropped)					
_Iyear_1997	(dropped)					
_Iyear_1998	(dropped)					
_Iyear_1999	(dropped)					
_Iyear_2000	(dropped)					
_cons	5.328075	.0116654	456.74	0.000	5.305211	5.350939

state	absorbed				(51 categories)	

```
. xi: areg lnwage guards PSC PSCgrd PT union college highschl sex i.race
i.ethnic i.occ80 age agesq i.year [pw
> =earnwt] if esr==1 & (guards==1 | sec==1), a(state)
i.race      _Irace_1-5      (naturally coded; _Irace_1 omitted)
i.ethnic    _Iethnic_1-10  (naturally coded; _Iethnic_1 omitted)
i.occ80     _Iocc80_313-453 (naturally coded; _Iocc80_313 omitted)
i.year      _Iyear_1983-2000 (naturally coded; _Iyear_1983 omitted)
```

Regression with robust standard errors

Number of obs = 102312
 F(74,102187) = 886.54
 Prob > F = 0.0000
 R-squared = 0.4247
 Adj R-squared = 0.4240
 Root MSE = .28488

lnwage	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
guards	-.1224144	.0080762	-15.16	0.000	-.1382437	-.1065851
PSC	-.0460711	.0257979	-1.79	0.074	-.0966348	.0044925
PSCgrd	-.1769755	.0275762	-6.42	0.000	-.2310246	-.1229264
PT	-.169587	.0027039	-62.72	0.000	-.1748866	-.1642874
union	.2255065	.0034694	65.00	0.000	.2187066	.2323065
college	.0293607	.0021646	13.56	0.000	.0251181	.0336033
highschl	.0960934	.0043694	21.99	0.000	.0875295	.1046574
sex	.0998008	.0035308	28.27	0.000	.0928804	.1067211
_Irace_2	-.0192155	.0036855	-5.21	0.000	-.026439	-.0119919
_Irace_3	-.0346506	.0072095	-4.81	0.000	-.0487812	-.0205201
_Irace_4	(dropped)					
_Irace_5	(dropped)					
_Iethnic_2	-.0255401	.0344248	-0.74	0.458	-.0930122	.041932
_Iethnic_3	-.0456979	.0140014	-3.26	0.001	-.0731404	-.0182554
_Iethnic_4	.0205507	.01423	1.44	0.149	-.0073399	.0484412
_Iethnic_5	.0260595	.0175134	1.49	0.137	-.0082665	.0603855
_Iethnic_6	-.0053253	.0157221	-0.34	0.735	-.0361404	.0254897
_Iethnic_7	.0268887	.0161622	1.66	0.096	-.004789	.0585665
_Iethnic_8	.043291	.006986	6.20	0.000	.0295985	.0569834
_Iethnic_9	.013399	.0105697	1.27	0.205	-.0073175	.0341155
_Iethnic_10	(dropped)					
_Iocc80_314	.1137927	.0273421	4.16	0.000	.0602025	.1673829
_Iocc80_315	-.0396458	.0046453	-8.53	0.000	-.0487506	-.0305411
_Iocc80_316	-.0420243	.0091674	-4.58	0.000	-.0599922	-.0240564
_Iocc80_317	-.2263253	.0103808	-21.80	0.000	-.2466716	-.205979
_Iocc80_318	.1554036	.0153349	10.13	0.000	.1253473	.1854599
_Iocc80_319	-.1121774	.0044064	-25.46	0.000	-.1208139	-.1035408
_Iocc80_323	-.1193262	.0085003	-14.04	0.000	-.1359866	-.1026658
_Iocc80_325	-.2399353	.0504039	-4.76	0.000	-.3387263	-.1411442
_Iocc80_326	.0976093	.0298297	3.27	0.001	.0391434	.1560752
_Iocc80_327	.0743786	.0100055	7.43	0.000	.0547681	.0939892
_Iocc80_328	.07091	.0163916	4.33	0.000	.0387827	.1030372
_Iocc80_329	-.2105564	.0095398	-22.07	0.000	-.2292543	-.1918584
_Iocc80_335	-.109268	.0065814	-16.60	0.000	-.1221674	-.0963685
_Iocc80_336	.0046591	.0114993	0.41	0.685	-.0178793	.0271975
_Iocc80_337	-.0166911	.0038223	-4.37	0.000	-.0241828	-.0091994
_Iocc80_338	.0573321	.0099603	5.76	0.000	.0378101	.076854
_Iocc80_339	.0087994	.0088966	0.99	0.323	-.0086378	.0262365
_Iocc80_343	-.042616	.0175176	-2.43	0.015	-.0769504	-.0082817

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_Iocc80_344	-.045632	.019089	-2.39	0.017	-.0830461	-.0082179
_Iocc80_345	-.0691736	.0237788	-2.91	0.004	-.1157799	-.0225674
_Iocc80_346	-.1772039	.0387201	-4.58	0.000	-.2530947	-.101313
_Iocc80_347	-.1115869	.0181823	-6.14	0.000	-.1472239	-.0759498
_Iocc80_348	-.037217	.0084894	-4.38	0.000	-.053856	-.020578
_Iocc80_349	.0395487	.05151	0.77	0.443	-.0614102	.1405076
_Iocc80_353	-.2036457	.0677601	-3.01	0.003	-.3364547	-.0708367
_Iocc80_354	.2221624	.0076516	29.03	0.000	.2071655	.2371594
_Iocc80_355	.198775	.0079291	25.07	0.000	.1832342	.2143159
_Iocc80_356	-.1139678	.0098217	-11.60	0.000	-.1332182	-.0947173
_Iocc80_357	-.1154943	.013508	-8.55	0.000	-.1419699	-.0890188
_Iocc80_359	-.0065269	.0114899	-0.57	0.570	-.029047	.0159932
_Iocc80_363	.1493758	.0108731	13.74	0.000	.1280647	.170687
_Iocc80_364	-.0356744	.0065062	-5.48	0.000	-.0484264	-.0229224
_Iocc80_365	-.0285498	.0061197	-4.67	0.000	-.0405443	-.0165552
_Iocc80_366	.0868577	.0179566	4.84	0.000	.0516631	.1220523
_Iocc80_368	-.0447912	.0156475	-2.86	0.004	-.0754601	-.0141222
_Iocc80_369	.0766515	.1259405	0.61	0.543	-.1701902	.3234932
_Iocc80_373	-.0172045	.0129194	-1.33	0.183	-.0425263	.0081173
_Iocc80_374	-.1542936	.0190423	-8.10	0.000	-.1916163	-.1169709
_Iocc80_375	.098848	.0113004	8.75	0.000	.0766993	.1209967
_Iocc80_376	.0404854	.0083028	4.88	0.000	.0242119	.0567588
_Iocc80_377	-.0118554	.0146839	-0.81	0.419	-.0406358	.0169249
_Iocc80_378	-.0071812	.0140575	-0.51	0.609	-.0347337	.0203713
_Iocc80_379	-.0806156	.0052643	-15.31	0.000	-.0909335	-.0702976
_Iocc80_383	-.0959182	.0052495	-18.27	0.000	-.1062072	-.0856292
_Iocc80_384	.0032085	.0260534	0.12	0.902	-.0478558	.0542727
_Iocc80_385	.0023428	.0060582	0.39	0.699	-.0095313	.0142168
_Iocc80_386	.0383357	.015889	2.41	0.016	.0071936	.0694779
_Iocc80_387	-.2302737	.0069805	-32.99	0.000	-.2439553	-.216592
_Iocc80_389	-.0038278	.0057702	-0.66	0.507	-.0151373	.0074816
_Iocc80_426	(dropped)					
_Iocc80_453	(dropped)					
age	.0366576	.0004688	78.20	0.000	.0357388	.0375764
agesq	-.0003862	5.94e-06	-64.97	0.000	-.0003978	-.0003745
_Iyear_1984	.0435615	.0035463	12.28	0.000	.0366108	.0505122
_Iyear_1985	.0783864	.003497	22.42	0.000	.0715322	.0852405
_Iyear_1986	.1106942	.0034863	31.75	0.000	.103861	.1175273
_Iyear_1987	.1386446	.003511	39.49	0.000	.1317632	.1455261
_Iyear_1988	.1781115	.0036324	49.03	0.000	.1709919	.185231
_Iyear_1989	(dropped)					
_Iyear_1990	(dropped)					
_Iyear_1991	(dropped)					
_Iyear_1992	(dropped)					
_Iyear_1993	(dropped)					
_Iyear_1994	(dropped)					
_Iyear_1995	(dropped)					
_Iyear_1996	(dropped)					
_Iyear_1997	(dropped)					
_Iyear_1998	(dropped)					
_Iyear_1999	(dropped)					
_Iyear_2000	(dropped)					
_cons	5.453693	.0115842	470.79	0.000	5.430988	5.476398
state	absorbed					(51 categories)

```
. *****
. drop if sec==1
(305256 observations deleted)
```

```
. gen out = (BSC==1 | PSC==1)
. gen unionout = union*out
(4629 missing values generated)
```

```
. gen PTout = PT*out
```

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 (1197 missing values generated)

```
. gen rwage_union = rwage if union==1
(53080 missing values generated)

. gen rwage_nonunion = rwage if union==0
(12813 missing values generated)
```

```
.
.
. gen year3 = floor(year/3) - 660
```

```
. svyset [pw=earnwt]
pweight is earnwt
```

```
. svymean out if janitor==1 , by(year3)
```

Survey mean estimation

```
pweight:  earnwt          Number of obs   =    46295
Strata:   <one>          Number of strata =         1
PSU:     <observations> Number of PSUs  =    46295
                          Population size = 3.370e+08
```

Mean	Subpop.	Estimate	Std. Err.	[95% Conf. Interval]	Deff
out					
	year3==1	.1395908	.0042281	.1313037 .147878	1.068293
	year3==2	.1601923	.0047839	.1508158 .1695687	1.292014
	year3==3	.1728271	.0048575	.1633063 .1823479	1.270387
	year3==4	.190906	.0053581	.180404 .2014081	1.407796
	year3==5	.1951537	.0053926	.1845841 .2057234	1.495964
	year3==6	.1752493	.00521	.1650376 .185461	1.534474

```
. svymean out if guards==1 , by(year3)
```

Survey mean estimation

```
pweight:  earnwt          Number of obs   =    14969
Strata:   <one>          Number of strata =         1
PSU:     <observations> Number of PSUs  =    14969
                          Population size = 1.151e+08
```

Mean	Subpop.	Estimate	Std. Err.	[95% Conf. Interval]	Deff
out					
	year3==1	.428274	.0109569	.4067971 .449751	1.052096
	year3==2	.4386377	.0108644	.4173422 .4599332	1.170326
	year3==3	.4446657	.0109843	.4231351 .4661963	1.193186
	year3==4	.4644005	.0112074	.4424326 .4863683	1.313287
	year3==5	.514619	.0116642	.4917558 .5374822	1.427296
	year3==6	.510238	.0116642	.4873748 .5331013	1.479598

```
. svymean rwage if janitor==1 & out==0, by(year3)
```

Survey mean estimation

```
pweight:  earnwt          Number of obs   =    38549
Strata:   <one>          Number of strata =         1
PSU:     <observations> Number of PSUs  =    38549
```


Survey mean estimation

```
pweight:  earnwt          Number of obs   =   6717
Strata:    <one>         Number of strata =     1
PSU:      <observations> Number of PSUs  =   6717
                               Population size = 53958827
```

Mean	Subpop.	Estimate	Std. Err.	[95% Conf. Interval]		Deff

rwage						
	year3==1	8.086645	.09533	7.899768	8.273522	.9768308
	year3==2	8.054613	.1028947	7.852907	8.25632	1.082856
	year3==3	8.472732	.1279159	8.221977	8.723488	1.171385
	year3==4	8.473976	.1432721	8.193118	8.754835	1.197626
	year3==5	8.34805	.1214212	8.110026	8.586074	1.303957
	year3==6	9.286917	.1451522	9.002373	9.571462	1.516634

```
. xi: svyreg rwage i.out*i.year3 if janitor ==1 & (year3<2 | year3>5 )
i.out      _Iout_0-1      (naturally coded; _Iout_0 omitted)
i.year3    _Iyear3_1-6   (naturally coded; _Iyear3_1 omitted)
i.out*i.year3  _IoutXyea_#_# (coded as above)
note: _Iyear3_2 dropped due to collinearity
note: _Iyear3_3 dropped due to collinearity
note: _Iyear3_4 dropped due to collinearity
note: _Iyear3_5 dropped due to collinearity
note: _IoutXyea_1_2 dropped due to collinearity
note: _IoutXyea_1_3 dropped due to collinearity
note: _IoutXyea_1_4 dropped due to collinearity
note: _IoutXyea_1_5 dropped due to collinearity
```

Survey linear regression

```
pweight:  earnwt          Number of obs   =   15278
Strata:    <one>         Number of strata =     1
PSU:      <observations> Number of PSUs  =   15278
                               Population size = 1.117e+08
                               F( 3, 15275) = 88.54
                               Prob > F = 0.0000
                               R-squared = 0.0132
```

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

_Iout_1	-1.495535	.1069011	-13.99	0.000	-1.705074	-1.285996
_Iyear3_6	-.3543902	.0833904	-4.25	0.000	-.5178454	-.190935
IoutXyea~6	.5577538	.1601427	3.48	0.000	.243855	.8716526
_cons	9.487305	.0557054	170.31	0.000	9.378116	9.596495

```
. xi: svyreg rwage i.out*i.year3 if guards ==1 & (year3<2 | year3>5 )
i.out      _Iout_0-1      (naturally coded; _Iout_0 omitted)
i.year3    _Iyear3_1-6   (naturally coded; _Iyear3_1 omitted)
i.out*i.year3  _IoutXyea_#_# (coded as above)
note: _Iyear3_2 dropped due to collinearity
note: _Iyear3_3 dropped due to collinearity
note: _Iyear3_4 dropped due to collinearity
note: _Iyear3_5 dropped due to collinearity
note: _IoutXyea_1_2 dropped due to collinearity
note: _IoutXyea_1_3 dropped due to collinearity
note: _IoutXyea_1_4 dropped due to collinearity
note: _IoutXyea_1_5 dropped due to collinearity
```

Survey linear regression

```
pweight:  earnwt          Number of obs   =   4777
```

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```
Strata: <one> Number of strata = 1
PSU: <observations> Number of PSUs = 4777
Population size = 37389397
F( 3, 4774) = 123.48
Prob > F = 0.0000
R-squared = 0.0601
```

rwage	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
_Iout_1	-2.542191	.1746002	-14.56	0.000	-2.884487	-2.199894
_Iyear3_6	.5586791	.2227747	2.51	0.012	.1219379	.9954202
IoutXyea~6	.6415927	.2824666	2.27	0.023	.087828	1.195357
_cons	10.62884	.1462766	72.66	0.000	10.34207	10.91561

```
. svymean rwage rwage_union rwage_nonunion PT union if janitor==1, by(out)
```

Survey mean estimation

```
pweight: earnwt Number of obs(*) = 46295
Strata: <one> Number of strata = 1
PSU: <observations> Number of PSUs = 46295
Population size = 3.370e+08
```

Mean	Subpop.	Estimate	Std. Err.	[95% Conf. Interval]		Deff
rwage	out==0	9.193657	.0249988	9.144659	9.242655	1.29368
	out==1	7.876803	.0427506	7.793012	7.960595	1.282067
rwage_union	out==0	12.54143	.0647216	12.41456	12.66831	1.261598
	out==1	10.68688	.1511501	10.39058	10.98318	1.377229
rwage_nonunion	out==0	8.220923	.0249761	8.17197	8.269877	1.325405
	out==1	7.399281	.0397252	7.321419	7.477144	1.356975
PT	out==0	.1994282	.0023059	.1949086	.2039478	1.254409
	out==1	.2946809	.0060072	.2829067	.306455	1.347791
union	out==0	.1606099	.0021622	.156372	.1648477	1.212559
	out==1	.09604	.0039301	.0883369	.1037432	1.347966

(*) Some variables contain missing values.

```
. svymean rwage rwage_union rwage_nonunion PT union if guard==1, by(out)
guard ambiguous abbreviation
r(111);
```

```
end of do-file
r(111);
```

```
. do "C:\DOCUME~1\ARINDR~1\LOCALS~1\Temp\STD0g000000.tmp"
```

```
. svymean rwage rwage_union rwage_nonunion PT union if guards==1, by(out)
```

Survey mean estimation

```
pweight: earnwt Number of obs(*) = 14969
Strata: <one> Number of strata = 1
PSU: <observations> Number of PSUs = 14969
Population size = 1.151e+08
```


24	1994	1
25	1995	0

26	1995	1
27	1996	0
28	1996	1
29	1997	0
30	1997	1

31	1998	0
32	1998	1
33	1999	0
34	1999	1
35	2000	0

36	2000	1

--Break--
r(1);

end of do-file

--Break--
r(1);

. do "C:\DOCUME~1\ARINDR~1\LOCALS~1\Temp\STD0g000000.tmp"

. svymeans highschl college black latino female age if janitor==1, by(year3 out)

Subpop.	year3	out
1	1	0
2	1	1
3	2	0
4	2	1
5	3	0

6	3	1
7	4	0
8	4	1
9	5	0
10	5	1

11	6	0
12	6	1

Survey mean estimation

pweight:	earnwt	Number of obs	=	46295
Strata:	<one>	Number of strata	=	1
PSU:	<observations>	Number of PSUs	=	46295
		Population size	=	3.370e+08

Mean	Subpop.	Estimate	Std. Err.	[95% Conf. Interval]	Deff

highschl					
	1	.5983455	.0063814	.5858378 .6108531	1.046393
	2	.6278372	.0156816	.597101 .6585734	1.054435
	3	.6115697	.0066742	.5984882 .6246511	1.196034
	4	.5888964	.0162795	.5569884 .6208044	1.331858
	5	.6421775	.0066854	.629074 .655281	1.238348
	6	.5729264	.0153636	.5428134 .6030393	1.28325
	7	.6333463	.0071036	.6194231 .6472694	1.33165
	8	.5870672	.0155321	.5566241 .6175102	1.43894
	9	.6497385	.0072614	.6355061 .663971	1.506728
	10	.5657183	.0152541	.5358201 .5956164	1.49344

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11	.6637091	.0072268	.6495443	.6778738	1.576842
12	.5514285	.0162816	.5195163	.5833407	1.534584

college					
1	.1723311	.004952	.1626251	.1820371	1.061714
2	.1723857	.0132086	.1464965	.1982748	1.225198
3	.1660035	.0049907	.1562216	.1757853	1.147483
4	.160753	.0121801	.1368798	.1846261	1.337892
5	.1712008	.0051942	.1610201	.1813814	1.210557
6	.1531233	.0111384	.131292	.1749547	1.27264
7	.2065486	.0060317	.1947264	.2183707	1.360393
8	.1605956	.0116495	.1377623	.1834289	1.455673
9	.203145	.0060908	.191207	.215083	1.490335
10	.1492005	.0107682	.1280946	.1703064	1.440391
11	.1931249	.0059727	.1814182	.2048316	1.54272
12	.1690315	.0125282	.144476	.193587	1.60009

black					
1	.2281397	.0057303	.2169083	.2393712	1.151543
2	.2959145	.015123	.2662732	.3255557	1.099768
3	.2148406	.0058826	.2033105	.2263707	1.308514
4	.2838908	.0150184	.2544544	.3133271	1.349854
5	.2179792	.0060809	.2060604	.2298979	1.381081
6	.2532651	.0141467	.2255373	.2809929	1.40765
7	.2167269	.0065156	.2039562	.2294976	1.532555
8	.2571531	.0148007	.2281436	.2861627	1.65815
9	.1946495	.006292	.1823172	.2069819	1.642319
10	.2043017	.0129805	.1788598	.2297437	1.634371
11	.2054578	.0065067	.1927045	.218211	1.747691
12	.2184144	.0140808	.1908158	.246013	1.663081

latino					
1	.0912477	.003871	.0836606	.0988349	1.115926
2	.1528065	.0116845	.1299048	.1757083	1.056606
3	.1201861	.0049646	.1104555	.1299167	1.486701
4	.2251792	.0153395	.1951135	.255245	1.640832
5	.1386905	.0050934	.1287074	.1486737	1.382683
6	.2787851	.0144495	.2504638	.3071064	1.381329
7	.1378433	.005293	.1274688	.1482177	1.444663
8	.2778643	.0143664	.2497059	.3060227	1.487292
9	.1856975	.0062481	.1734511	.1979438	1.6789
10	.3215446	.0147215	.2926903	.3503989	1.56649
11	.19278	.0062171	.1805944	.2049657	1.67381
12	.3525985	.0158434	.3215453	.3836517	1.574552

female					
1	.2463551	.0055848	.2354088	.2573015	1.037426
2	.4197092	.0161476	.3880597	.4513588	1.072607
3	.2586011	.0058437	.2471473	.2700548	1.136055
4	.4434991	.0162038	.4117394	.4752588	1.294328
5	.2639546	.0060633	.2520705	.2758387	1.204736
6	.4371635	.0152593	.4072551	.467072	1.258834
7	.2562538	.0062399	.2440236	.2684841	1.251952
8	.4411566	.0154974	.4107815	.4715318	1.408595
9	.2926625	.0068427	.2792507	.3060743	1.470912
10	.493279	.0153945	.4631056	.5234524	1.495054
11	.311176	.0069676	.2975194	.3248327	1.526292
12	.4713417	.0162737	.439445	.5032384	1.521872

age					
1	38.85472	.2100178	38.44308	39.26636	1.049436
2	34.5685	.4682239	33.65077	35.48622	1.084365
3	39.25859	.2112693	38.8445	39.67268	1.143866
4	35.21948	.4339541	34.36892	36.07004	1.214787
5	39.73781	.2099946	39.32622	40.1494	1.204964
6	36.4059	.4154404	35.59163	37.22017	1.203763
7	40.11429	.212264	39.69825	40.53033	1.265974
8	35.93289	.4134592	35.1225	36.74328	1.382408

```

                Regs_April2006_print[1].txt
    9 |      40.4041      .2127241      39.98716      40.82104      1.45232
   10 |      37.4996      .4141334      36.6879      38.31131      1.43399
   11 |      41.21745     .2198922      40.78646      41.64845      1.549151
   12 |      38.70452     .4511079      37.82034      39.5887      1.492615

```

```
. svymean highschl college black latino female age if guards==1, by(year3 out)
```

Subpop.	year3	out
1	1	0
2	1	1
3	2	0
4	2	1
5	3	0
6	3	1
7	4	0
8	4	1
9	5	0
10	5	1
11	6	0
12	6	1

Survey mean estimation

```

pweight:  earnwt
Strata:   <one>
PSU:     <observations>
Number of obs = 14969
Number of strata = 1
Number of PSUs = 14969
Population size = 1.151e+08

```

Mean	Subpop.	Estimate	Std. Err.	[95% Conf. Interval]	Deff

highschl					
	1	.801096	.0114322	.7786875 .8235045	1.006246
	2	.7808773	.0140457	.753346 .8084086	1.059555
	3	.8043336	.0115377	.7817184 .8269488	1.159242
	4	.8090151	.0126004	.7843168 .8337135	1.100444
	5	.8684856	.0097773	.8493208 .8876504	1.135036
	6	.8105853	.0130167	.7850711 .8360995	1.198313
	7	.8733357	.009651	.8544186 .8922527	1.172813
	8	.8414845	.0123721	.8172336 .8657353	1.385941
	9	.8849234	.0105703	.8642042 .9056425	1.395534
	10	.8426122	.0118515	.8193818 .8658426	1.428262
	11	.8777837	.0106587	.8568913 .8986761	1.409522
	12	.8249834	.0124763	.8005283 .8494384	1.4949

college					
	1	.3877568	.0143328	.3596627 .4158508	1.061582
	2	.3474838	.0161544	.3158191 .3791485	1.057709
	3	.4157398	.0143077	.3876949 .4437847	1.155058
	4	.3391126	.0159724	.3078048 .3704203	1.219047
	5	.4334308	.0146439	.4047269 .4621346	1.184259
	6	.3655702	.0162482	.3337216 .3974187	1.236067
	7	.4880359	.0148253	.4589765 .5170952	1.225285
	8	.4034281	.0167691	.3705586 .4362976	1.411127
	9	.4999499	.016518	.4675726 .5323272	1.388133
	10	.3955415	.016228	.3637327 .4273502	1.485353
	11	.4721169	.0165511	.4396748 .5045591	1.463
	12	.3759814	.0159257	.344765 .4071978	1.498998

black					
	1	.1740816	.0119032	.1507498 .1974134	1.208964
	2	.2185145	.0146987	.1897032 .2473257	1.162694

Regs_April2006_print[1].txt

3	.2049832	.0122067	.1810566	.2289098	1.253119
4	.2421503	.014982	.2127838	.2715168	1.309855
5	.1874206	.012686	.1625545	.2122867	1.43308
6	.2759701	.0160082	.2445921	.3073482	1.392678
7	.2112843	.0128514	.1860939	.2364747	1.380506
8	.2758994	.0165117	.2435344	.3082643	1.648197
9	.1973406	.0137005	.170486	.2241952	1.507232
10	.2867459	.0155543	.2562576	.3172342	1.59521
11	.2250844	.0147002	.1962703	.2538985	1.649007
12	.3202324	.0159585	.2889519	.3515129	1.622264

latino

1	.0574263	.0072691	.043178	.0716746	1.197585
2	.0719005	.0089628	.0543324	.0894687	1.106287
3	.0628826	.0076068	.0479724	.0777929	1.345756
4	.0896731	.010734	.0686332	.110713	1.511523
5	.080818	.0080664	.0650069	.0966292	1.187839
6	.0895219	.0096646	.0705781	.1084656	1.244374
7	.094272	.0088402	.0769442	.1115999	1.274865
8	.1026832	.0103482	.0823996	.1229669	1.403642
9	.0866168	.0100906	.066838	.1063956	1.636953
10	.1141784	.0107023	.0932006	.1351561	1.52715
11	.0901479	.0095885	.0713532	.1089426	1.491959
12	.1078875	.0100132	.0882603	.1275147	1.444522

female

1	.1726939	.0108385	.151449	.1939388	1.008725
2	.1266692	.0112317	.1046537	.1486847	1.047969
3	.1246529	.0091374	.1067425	.1425633	1.048707
4	.133635	.0107207	.112621	.1546489	1.063115
5	.1485955	.0104263	.1281586	.1690324	1.16527
6	.146824	.011413	.1244531	.1691948	1.129138
7	.185907	.0116191	.1631322	.2086819	1.242499
8	.1302336	.0112073	.1082659	.1522013	1.339223
9	.1999158	.0131974	.1740473	.2257843	1.385004
10	.1603821	.0119812	.1368975	.1838668	1.437551
11	.2002773	.0131159	.1745686	.225986	1.429558
12	.1976452	.0129758	.1722111	.2230793	1.472244

age

1	40.12096	.474963	39.18997	41.05194	1.052492
2	38.19136	.5484744	37.11628	39.26644	1.022924
3	40.54265	.466644	39.62797	41.45732	1.129489
4	39.04834	.5303259	38.00884	40.08785	1.162497
5	39.51997	.4490065	38.63987	40.40008	1.115783
6	38.45852	.5277703	37.42403	39.49302	1.178684
7	40.13096	.4552685	39.23858	41.02334	1.206564
8	38.8005	.5182164	37.78473	39.81627	1.270586
9	40.02699	.5223485	39.00313	41.05086	1.390683
10	39.9476	.5324309	38.90397	40.99123	1.406741
11	40.37553	.5070153	39.38171	41.36934	1.433742
12	40.26547	.5227043	39.24091	41.29004	1.476604

.
.
.
.
xi: svyreg highscl out if janitor==1

Survey linear regression

pweight:	earnwt	Number of obs	=	46295
Strata:	<one>	Number of strata	=	1
PSU:	<observations>	Number of PSUs	=	46295
		Population size	=	3.370e+08
		F(1, 46294)	=	58.70
		Prob > F	=	0.0000

Regs_April2006_print[1].txt
R-squared = 0.0018

highschl	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
out	-.0541536	.0070685	-7.66	0.000	-.0680079	-.0402993
_cons	.6336699	.0028236	224.42	0.000	.6281355	.6392043

. xi: svyreg college out if janitor==1

Survey linear regression

pweight: earnwt Number of obs = 46295
 Strata: <one> Number of strata = 1
 PSU: <observations> Number of PSUs = 46295
 Population size = 3.370e+08
 F(1, 46294) = 22.32
 Prob > F = 0.0000
 R-squared = 0.0006

college	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
out	-.0253406	.0053641	-4.72	0.000	-.0358543	-.0148269
_cons	.1854583	.0022789	81.38	0.000	.1809916	.189925

. xi: svyreg black out if janitor==1

Survey linear regression

pweight: earnwt Number of obs = 46295
 Strata: <one> Number of strata = 1
 PSU: <observations> Number of PSUs = 46295
 Population size = 3.370e+08
 F(1, 46294) = 30.57
 Prob > F = 0.0000
 R-squared = 0.0010

black	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
out	.0353514	.0063933	5.53	0.000	.0228204	.0478824
_cons	.2127287	.0025259	84.22	0.000	.2077778	.2176796

. xi: svyreg latino out if janitor==1

Survey linear regression

pweight: earnwt Number of obs = 46295
 Strata: <one> Number of strata = 1
 PSU: <observations> Number of PSUs = 46295
 Population size = 3.370e+08
 F(1, 46294) = 408.22
 Prob > F = 0.0000
 R-squared = 0.0176

latino	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
out	.1310063	.006484	20.20	0.000	.1182975	.143715
_cons	.1453239	.0022112	65.72	0.000	.1409899	.1496578

. xi: svyreg female out if janitor==1

Survey linear regression

```

pweight:  earnwt          Number of obs   =   46295
Strata:   <one>          Number of strata =     1
PSU:     <observations> Number of PSUs  =   46295
                               Population size = 3.370e+08
                               F( 1, 46294) =   675.63
                               Prob > F    =   0.0000
                               R-squared    =   0.0223
    
```

female	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
out	.1816556	.0069887	25.99	0.000	.1679577 .1953535
_cons	.2721782	.0025779	105.58	0.000	.2671255 .2772309

. xi: svyreg age out if janitor==1

Survey linear regression

```

pweight:  earnwt          Number of obs   =   46295
Strata:   <one>          Number of strata =     1
PSU:     <observations> Number of PSUs  =   46295
                               Population size = 3.370e+08
                               F( 1, 46294) =   298.20
                               Prob > F    =   0.0000
                               R-squared    =   0.0074
    
```

age	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
out	-3.412568	.1976169	-17.27	0.000	-3.7999 -3.025236
_cons	39.94938	.0870038	459.17	0.000	39.77885 40.11991

.
. xi: svyreg highsch1 out if guards==1

Survey linear regression

```

pweight:  earnwt          Number of obs   =   14969
Strata:   <one>          Number of strata =     1
PSU:     <observations> Number of PSUs  =   14969
                               Population size = 1.151e+08
                               F( 1, 14968) =    21.31
                               Prob > F    =   0.0000
                               R-squared    =   0.0018
    
```

highsch1	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
out	-.0312909	.0067777	-4.62	0.000	-.0445761 -.0180057
_cons	.8520618	.0043517	195.80	0.000	.843532 .8605916

. xi: svyreg college out if guards==1

Survey linear regression

```

pweight:  earnwt          Number of obs   =   14969
Strata:   <one>          Number of strata =     1
PSU:     <observations> Number of PSUs  =   14969
                               Population size = 1.151e+08
                               F( 1, 14968) =    70.00
                               Prob > F    =   0.0000
                               R-squared    =   0.0060
    
```

college	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
out	-.0765258	.0091466	-8.37	0.000	-.0944543	-.0585973
_cons	.4500208	.0062345	72.18	0.000	.4378003	.4622412

. xi: svyreg black out if guards==1

Survey linear regression

pweight: earnwt	Number of obs =	14969
Strata: <one>	Number of strata =	1
PSU: <observations>	Number of PSUs =	14969
	Population size =	1.151e+08
	F(1, 14968) =	76.58
	Prob > F =	0.0000
	R-squared =	0.0075

black	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
out	.0736249	.0084135	8.75	0.000	.0571333	.0901165
_cons	.200465	.0053366	37.56	0.000	.1900047	.2109253

. xi: svyreg latino out if guards==1

Survey linear regression

pweight: earnwt	Number of obs =	14969
Strata: <one>	Number of strata =	1
PSU: <observations>	Number of PSUs =	14969
	Population size =	1.151e+08
	F(1, 14968) =	11.87
	Prob > F =	0.0006
	R-squared =	0.0011

latino	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
out	.018905	.0054869	3.45	0.001	.00815	.02966
_cons	.0789632	.0035326	22.35	0.000	.0720389	.0858876

. xi: svyreg female out if guards==1

Survey linear regression

pweight: earnwt	Number of obs =	14969
Strata: <one>	Number of strata =	1
PSU: <observations>	Number of PSUs =	14969
	Population size =	1.151e+08
	F(1, 14968) =	8.43
	Prob > F =	0.0037
	R-squared =	0.0007

female	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
out	-.019626	.0067598	-2.90	0.004	-.0328761	-.0063759
_cons	.1715893	.0046921	36.57	0.000	.1623923	.1807863

. xi: svyreg age out if guards==1

Survey linear regression

Regs_April2006_print[1].txt

```

pweight:  earnwt          Number of obs   =   14969
Strata:    <one>         Number of strata =     1
PSU:      <observations> Number of PSUs   =   14969
                               Population size  =  1.151e+08
                               F( 1, 14968)     =    9.55
                               Prob > F       =    0.0020
                               R-squared      =    0.0008
    
```

	age	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
out		-.9050024	.2929178	-3.09	0.002	-1.479157	-.3308477
_cons		40.12048	.195711	205.00	0.000	39.73686	40.50409

```

.
.
.
. xi: areg lnwage out union college highschl sex i.race i.ethnic age agesq
i.year i.centcity if janitor==1 , a(s
> tate)
    
```

```

i.race      _Irace_1-5      (naturally coded; _Irace_1 omitted)
i.ethnic    _Iethnic_1-10  (naturally coded; _Iethnic_1 omitted)
i.year      _Iyear_1983-2000 (naturally coded; _Iyear_1983 omitted)
i.centcity  _Icentcity_1-3  (naturally coded; _Icentcity_1 omitted)
    
```

```

Number of obs = 33878
F( 39, 33878) = 522.74
Prob > F      = 0.0000
R-squared     = 0.4101
Adj R-squared = 0.4085
Root MSE     = .31184
    
```

	lnwage	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
out		-.0597442	.0047205	-12.66	0.000	-.0689966	-.0504918
union		.3296743	.0050455	65.34	0.000	.3197849	.3395637
college		.0086232	.0048317	1.78	0.074	-.0008472	.0180935
highschl		.0771615	.0039437	19.57	0.000	.0694317	.0848913
sex		.1215528	.003773	32.22	0.000	.1141575	.1289481
_Irace_2		-.0656695	.0052044	-12.62	0.000	-.0758704	-.0554687
_Irace_3		.0022021	.0107749	0.20	0.838	-.0189171	.0233212
_Irace_4		-.0642411	.0136509	-4.71	0.000	-.0909974	-.0374849
_Irace_5		.021778	.0262997	0.83	0.408	-.0297703	.0733263
_Iethnic_2		.0289551	.0511146	0.57	0.571	-.0712312	.1291414
_Iethnic_3		-.0302465	.0125659	-2.41	0.016	-.0548762	-.0056169
_Iethnic_4		.0484301	.0194513	2.49	0.013	.0103049	.0865553
_Iethnic_5		.0307459	.0235467	1.31	0.192	-.0154065	.0768983
_Iethnic_6		-.0147951	.014212	-1.04	0.298	-.0426511	.0130608
_Iethnic_7		.0183264	.0201581	0.91	0.363	-.0211841	.0578369
_Iethnic_8		.0495106	.0108493	4.56	0.000	.0282455	.0707756
_Iethnic_9		.0377217	.0208694	1.81	0.071	-.003183	.0786263
_Iethnic_10		.1493511	.3124313	0.48	0.633	-.4630249	.7617271
age		.033448	.0006227	53.71	0.000	.0322274	.0346685
agesq		-.0003433	7.33e-06	-46.85	0.000	-.0003577	-.000329
_Iyear_1984		.046642	.0097544	4.78	0.000	.0275231	.065761
_Iyear_1985		.0685979	.0104364	6.57	0.000	.0481422	.0890536
_Iyear_1986		.081487	.0097772	8.33	0.000	.0623233	.1006507
_Iyear_1987		.1088559	.0098867	11.01	0.000	.0894776	.1282342
_Iyear_1988		.1343008	.0099916	13.44	0.000	.114717	.1538846
_Iyear_1989		.1857197	.0099712	18.63	0.000	.1661757	.2052637
_Iyear_1990		.2250513	.0098573	22.83	0.000	.2057307	.244372
_Iyear_1991		.2770516	.0099646	27.80	0.000	.2575207	.2965825
_Iyear_1992		.2910211	.0100144	29.06	0.000	.2713925	.3106497
_Iyear_1993		.3189054	.0101326	31.47	0.000	.2990451	.3387657
_Iyear_1994		.3415708	.0107525	31.77	0.000	.3204955	.3626461

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_Iyear_1995	.3595508	.0117017	30.73	0.000	.336615	.3824865
_Iyear_1996	.3859118	.0107777	35.81	0.000	.3647872	.4070364
_Iyear_1997	.4258667	.0107304	39.69	0.000	.4048348	.4468986
_Iyear_1998	.4870493	.0107807	45.18	0.000	.4659186	.5081799
_Iyear_1999	.4989603	.0108758	45.88	0.000	.4776434	.5202772
_Iyear_2000	.5578812	.0107585	51.85	0.000	.5367942	.5789682
_Icentcity_2	.0370831	.0045267	8.19	0.000	.0282106	.0459556
_Icentcity_3	-.0248314	.0051937	-4.78	0.000	-.0350113	-.0146516
_cons	5.260292	.0177445	296.45	0.000	5.225512	5.295072

state | F(50, 33788) = 37.705 0.000 (51 categories)

. outreg out union using janitor_reg.out, replace

. xi: areg lnwage out union unionout college highschl sex i.race i.ethnic age
agesq i.year i.centcity if janitor=

> =1 , a(state)

i.race _Irace_1-5 (naturally coded; _Irace_1 omitted)
i.ethnic _Iethnic_1-10 (naturally coded; _Iethnic_1 omitted)
i.year _Iyear_1983-2000 (naturally coded; _Iyear_1983 omitted)
i.centcity _Icentcity_1-3 (naturally coded; _Icentcity_1 omitted)

Number of obs = 33878
F(40, 33787) = 509.96
Prob > F = 0.0000
R-squared = 0.4102
Adj R-squared = 0.4086
Root MSE = .31181

lnwage	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
out	-.0554299	.0049757	-11.14	0.000	-.0651825	-.0456773
union	.3342908	.0053189	62.85	0.000	.3238656	.344716
unionout	-.0393178	.0143479	-2.74	0.006	-.0674402	-.0111954
college	.0086366	.0048313	1.79	0.074	-.0008329	.018106
highschl	.0770734	.0039435	19.54	0.000	.069344	.0848027
sex	.1213231	.0037736	32.15	0.000	.1139267	.1287195
_Irace_2	-.0658484	.0052043	-12.65	0.000	-.0760491	-.0556477
_Irace_3	.0025535	.0107746	0.24	0.813	-.0185651	.0236721
_Irace_4	-.0642493	.0136496	-4.71	0.000	-.091003	-.0374957
_Irace_5	.0205444	.026301	0.78	0.435	-.0310065	.0720952
_Iethnic_2	.0295515	.0511101	0.58	0.563	-.0706261	.1297291
_Iethnic_3	-.0307178	.0125659	-2.44	0.015	-.0553474	-.0060883
_Iethnic_4	.0485036	.0194495	2.49	0.013	.010382	.0866252
_Iethnic_5	.0314319	.0235458	1.33	0.182	-.0147186	.0775825
_Iethnic_6	-.0146256	.0142107	-1.03	0.303	-.0424792	.0132279
_Iethnic_7	.0186097	.0201564	0.92	0.356	-.0208975	.0581169
_Iethnic_8	.0491652	.010849	4.53	0.000	.0279008	.0704297
_Iethnic_9	.0368584	.0208697	1.77	0.077	-.004047	.0777639
_Iethnic_10	.1447435	.3124057	0.46	0.643	-.4675824	.7570694
age	.0334096	.0006228	53.64	0.000	.0321888	.0346303
agesq	-.0003428	7.33e-06	-46.77	0.000	-.0003572	-.0003284
_Iyear_1984	.0468063	.0097536	4.80	0.000	.0276889	.0659238
_Iyear_1985	.0685448	.0104354	6.57	0.000	.048091	.0889986
_Iyear_1986	.0814929	.0097763	8.34	0.000	.062331	.1006547
_Iyear_1987	.1088118	.0098858	11.01	0.000	.0894354	.1281882
_Iyear_1988	.1341818	.0099907	13.43	0.000	.1145997	.1537639
_Iyear_1989	.1858478	.0099704	18.64	0.000	.1663055	.2053901
_Iyear_1990	.2249223	.0098565	22.82	0.000	.2056033	.2442413
_Iyear_1991	.276973	.0099636	27.80	0.000	.2574439	.2965021
_Iyear_1992	.291005	.0100135	29.06	0.000	.2713783	.3106317
_Iyear_1993	.3188379	.0101317	31.47	0.000	.2989795	.3386963
_Iyear_1994	.3413791	.0107517	31.75	0.000	.3203054	.3624529
_Iyear_1995	.3594222	.0117007	30.72	0.000	.3364885	.3823559
_Iyear_1996	.3857543	.0107768	35.79	0.000	.3646314	.4068772
_Iyear_1997	.4257236	.0107295	39.68	0.000	.4046935	.4467537
_Iyear_1998	.4870044	.0107797	45.18	0.000	.4658758	.5081331

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_Iyear_1999	.4987821	.0108749	45.87	0.000	.4774669	.5200973
_Iyear_2000	.5577285	.0107576	51.85	0.000	.5366432	.5788138
_Icentcity_2	.0366638	.0045289	8.10	0.000	.0277871	.0455405
_Icentcity_3	-.0250769	.005194	-4.83	0.000	-.0352573	-.0148965
_cons	5.260909	.0177443	296.49	0.000	5.22613	5.295688

state | F(50, 33787) = 37.659 0.000 (51 categories)

. outreg out union unionout using janitor_reg.out, append

```
. xi: areg lnwage out union unionout PTout college highschl sex i.race i.ethnic
age agesq i.year i.centcity if j
> anitor==1 , a(state)
i.race          _Irace_1-5          (naturally coded; _Irace_1 omitted)
i.ethnic        _Iethnic_1-10      (naturally coded; _Iethnic_1 omitted)
i.year          _Iyear_1983-2000  (naturally coded; _Iyear_1983 omitted)
i.centcity      _Icentcity_1-3    (naturally coded; _Icentcity_1 omitted)
--Break--
r(1);
```

end of do-file

--Break--

r(1);

. do "C:\DOCUME~1\ARINDR~1\LOCALS~1\Temp\STD0g000000.tmp"

```
. xi: areg lnwage out union unionout PT college highschl sex i.race i.ethnic
age agesq i.year i.centcity if jan
> itor==1 , a(state)
i.race          _Irace_1-5          (naturally coded; _Irace_1 omitted)
i.ethnic        _Iethnic_1-10      (naturally coded; _Iethnic_1 omitted)
i.year          _Iyear_1983-2000  (naturally coded; _Iyear_1983 omitted)
i.centcity      _Icentcity_1-3    (naturally coded; _Icentcity_1 omitted)
```

Number of obs = 33222
F(41, 33130) = 547.13
Prob > F = 0.0000
R-squared = 0.4362
Adj R-squared = 0.4346
Root MSE = .30557

lnwage	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
out	-.0477356	.0049604	-9.62	0.000	-.0574583	-.038013
union	.3059752	.0052801	57.95	0.000	.295626	.3163243
unionout	-.0376974	.0140977	-2.67	0.007	-.0653293	-.0100654
PT	-.1574854	.0044019	-35.78	0.000	-.1661132	-.1488575
college	.0203743	.0047927	4.25	0.000	.0109805	.0297681
highschl	.0692887	.0039086	17.73	0.000	.0616277	.0769497
sex	.0940769	.003821	24.62	0.000	.0865876	.1015663
_Irace_2	-.070396	.005149	-13.67	0.000	-.0804883	-.0603038
_Irace_3	-.0018171	.0106174	-0.17	0.864	-.0226275	.0189933
_Irace_4	-.0742402	.0136134	-5.45	0.000	-.1009229	-.0475575
_Irace_5	.0130458	.0258772	0.50	0.614	-.0376745	.0637661
_Iethnic_2	.0322539	.0501055	0.64	0.520	-.0659547	.1304624
_Iethnic_3	-.0389944	.0124428	-3.13	0.002	-.0633827	-.0146061
_Iethnic_4	.0476721	.0192118	2.48	0.013	.0100163	.085328
_Iethnic_5	.0331113	.0232242	1.43	0.154	-.012409	.0786315
_Iethnic_6	-.0135914	.0140698	-0.97	0.334	-.0411688	.013986
_Iethnic_7	.0273778	.0199486	1.37	0.170	-.0117222	.0664779
_Iethnic_8	.0625617	.0107196	5.84	0.000	.0415508	.0835725
_Iethnic_9	.0454624	.0205229	2.22	0.027	.0052368	.085688
_Iethnic_10	.13224	.3061708	0.43	0.666	-.4678657	.7323457
age	.0257601	.0006561	39.26	0.000	.024474	.0270462
agesq	-.0002546	7.70e-06	-33.04	0.000	-.0002697	-.0002395
_Iyear_1984	.047003	.0095612	4.92	0.000	.0282626	.0657434
_Iyear_1985	.0652755	.0102339	6.38	0.000	.0452167	.0853342

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_Iyear_1986	.0799334	.0095885	8.34	0.000	.0611395	.0987272
_Iyear_1987	.1059708	.0096911	10.93	0.000	.0869759	.1249657
_Iyear_1988	.1311945	.0097943	13.39	0.000	.1119972	.1503918
_Iyear_1989	.1821973	.0097737	18.64	0.000	.1630404	.2013541
_Iyear_1990	.220195	.0096628	22.79	0.000	.2012555	.2391344
_Iyear_1991	.2727704	.0097675	27.93	0.000	.2536257	.291915
_Iyear_1992	.2863895	.0098164	29.17	0.000	.267149	.3056301
_Iyear_1993	.3135091	.0099328	31.56	0.000	.2940405	.3329778
_Iyear_1994	.3388838	.0107366	31.56	0.000	.3178397	.3599278
_Iyear_1995	.3567702	.0116732	30.56	0.000	.3338904	.37965
_Iyear_1996	.3817128	.0107385	35.55	0.000	.360665	.4027607
_Iyear_1997	.4198971	.0107194	39.17	0.000	.3988866	.4409075
_Iyear_1998	.4833818	.0107703	44.88	0.000	.4622718	.5044919
_Iyear_1999	.4969644	.0108361	45.86	0.000	.4757254	.5182035
_Iyear_2000	.5475826	.0107158	51.10	0.000	.5265792	.568586
_Icentcity_2	.0405985	.0044821	9.06	0.000	.0318133	.0493837
_Icentcity_3	-.0216945	.0051412	-4.22	0.000	-.0317716	-.0116175
_cons	5.460232	.018447	296.00	0.000	5.424075	5.496389

state	F(50, 33130) =	40.012	0.000			(51 categories)

. outreg out union unionout using janitor_reg.out, append

```
. xi: areg lnwage out union unionout PT PTout college highschl sex i.race
i.ethnic age agesq i.year i.centcity if
> janitor==1 , a(state)
i.race          _Irace_1-5          (naturally coded; _Irace_1 omitted)
i.ethnic        _Iethnic_1-10      (naturally coded; _Iethnic_1 omitted)
i.year          _Iyear_1983-2000   (naturally coded; _Iyear_1983 omitted)
i.centcity      _Icentcity_1-3     (naturally coded; _Icentcity_1 omitted)
```

Number of obs = 33222
F(42, 33129) = 536.11
Prob > F = 0.0000
R-squared = 0.4370
Adj R-squared = 0.4355
Root MSE = .30534

lnwage	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
out	-.0708058	.0059194	-11.96	0.000	-.0824081	-.0592035
union	.3028764	.005294	57.21	0.000	.2925	.3132528
unionout	-.0235197	.0142268	-1.65	0.098	-.0514046	.0043653
PT	-.1731208	.004915	-35.22	0.000	-.1827543	-.1634873
PTout	.070953	.0099519	7.13	0.000	.0514469	.090459
college	.0206779	.0047892	4.32	0.000	.0112908	.030065
highschl	.068716	.0039065	17.59	0.000	.0610591	.0763729
sex	.0936393	.0038186	24.52	0.000	.0861546	.101124
_Irace_2	-.0710553	.005146	-13.81	0.000	-.0811416	-.060969
_Irace_3	-.0022973	.0106096	-0.22	0.829	-.0230925	.0184978
_Irace_4	-.0747732	.0136034	-5.50	0.000	-.1014363	-.0481102
_Irace_5	.0136073	.0258579	0.53	0.599	-.0370752	.0642897
_Iethnic_2	.030115	.0500687	0.60	0.548	-.0680215	.1282516
_Iethnic_3	-.0392976	.0124335	-3.16	0.002	-.0636677	-.0149275
_Iethnic_4	.0473253	.0191974	2.47	0.014	.0096976	.0849529
_Iethnic_5	.0329186	.0232068	1.42	0.156	-.0125675	.0784047
_Iethnic_6	-.0124188	.0140602	-0.88	0.377	-.0399773	.0151398
_Iethnic_7	.0274902	.0199337	1.38	0.168	-.0115805	.0665609
_Iethnic_8	.0625594	.0107116	5.84	0.000	.0415643	.0835544
_Iethnic_9	.0459581	.0205076	2.24	0.025	.0057625	.0861537
_Iethnic_10	.1300332	.305941	0.43	0.671	-.469622	.7296884
age	.0253282	.0006584	38.47	0.000	.0240377	.0266188
agesq	-.0002497	7.73e-06	-32.31	0.000	-.0002649	-.0002346
_Iyear_1984	.0470955	.0095541	4.93	0.000	.0283691	.0658218
_Iyear_1985	.0656145	.0102263	6.42	0.000	.0455706	.0856584
_Iyear_1986	.0806238	.0095818	8.41	0.000	.0618431	.0994045
_Iyear_1987	.1067209	.0096844	11.02	0.000	.0877391	.1257027

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_Iyear_1988	.1321736	.009788	13.50	0.000	.1129889	.1513584
_Iyear_1989	.1830874	.0097672	18.75	0.000	.1639434	.2022315
_Iyear_1990	.2211483	.0096565	22.90	0.000	.2022213	.2400754
_Iyear_1991	.2736746	.009761	28.04	0.000	.2545427	.2928065
_Iyear_1992	.2871703	.0098097	29.27	0.000	.267943	.3063975
_Iyear_1993	.3145461	.0099264	31.69	0.000	.29509	.3340022
_Iyear_1994	.3398754	.0107294	31.68	0.000	.3188453	.3609054
_Iyear_1995	.3576064	.011665	30.66	0.000	.3347426	.3804702
_Iyear_1996	.3829285	.0107318	35.68	0.000	.3618938	.4039632
_Iyear_1997	.4207618	.0107121	39.28	0.000	.3997658	.4417578
_Iyear_1998	.4841472	.0107627	44.98	0.000	.4630519	.5052425
_Iyear_1999	.4982423	.0108294	46.01	0.000	.4770163	.5194683
_Iyear_2000	.5484608	.0107085	51.22	0.000	.5274718	.5694498
_Icentcity_2	.0401643	.0044792	8.97	0.000	.031385	.0489437
_Icentcity_3	-.0212054	.0051378	-4.13	0.000	-.0312757	-.011135
_cons	5.472657	.0185153	295.57	0.000	5.436366	5.508948

state | F(50, 33129) = 40.321 0.000 (51 categories)

. outreg out union unionout PTout using janitor_reg.out, append

```

. xi: areg lnwage out union college highschl sex i.race i.ethnic age agesq
i.year i.centcity if guards==1, a(s
> tate)
i.race      _Irace_1-5      (naturally coded; _Irace_1 omitted)
i.ethnic    _Iethnic_1-10  (naturally coded; _Iethnic_1 omitted)
i.year      _Iyear_1983-2000 (naturally coded; _Iyear_1983 omitted)
i.centcity  _Icentcity_1-3  (naturally coded; _Icentcity_1 omitted)

```

Number of obs = 11357
F(38, 11268) = 166.43
Prob > F = 0.0000
R-squared = 0.3845
Adj R-squared = 0.3797
Root MSE = .33543

lnwage	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
out	-.1863872	.006542	-28.49	0.000	-.1992107	-.1735637
union	.2275118	.0107439	21.18	0.000	.2064519	.2485718
college	.03484	.0070779	4.92	0.000	.0209662	.0487139
highschl	.099105	.009321	10.63	0.000	.0808342	.1173758
sex	.0670146	.0086767	7.72	0.000	.0500068	.0840223
_Irace_2	-.0337418	.0090562	-3.73	0.000	-.0514935	-.0159901
_Irace_3	-.0477043	.0221794	-2.15	0.032	-.0911798	-.0042288
_Irace_4	-.0554066	.0245474	-2.26	0.024	-.1035237	-.0072894
_Irace_5	-.0490808	.0654127	-0.75	0.453	-.177301	.0791394
_Iethnic_2	.0259225	.1099318	0.24	0.814	-.189563	.241408
_Iethnic_3	-.0296888	.0362745	-0.82	0.413	-.1007931	.0414156
_Iethnic_4	.0433059	.034029	1.27	0.203	-.0233969	.1100088
_Iethnic_5	.01663	.0484212	0.34	0.731	-.0782839	.1115439
_Iethnic_6	-.0562247	.0358786	-1.57	0.117	-.1265531	.0141037
_Iethnic_7	.0796809	.0416304	1.91	0.056	-.001922	.1612838
_Iethnic_8	.0593676	.021942	2.71	0.007	.0163574	.1023778
_Iethnic_9	.014191	.0394892	0.36	0.719	-.0632148	.0915968
_Iethnic_10	(dropped)					
age	.0376607	.0011984	31.43	0.000	.0353116	.0400098
agesq	-.000421	.0000135	-31.11	0.000	-.0004475	-.0003945
_Iyear_1984	.0583649	.0189899	3.07	0.002	.0211413	.0955886
_Iyear_1985	.0417961	.0202638	2.06	0.039	.0020756	.0815167
_Iyear_1986	.111219	.0188311	5.91	0.000	.0743069	.1481312
_Iyear_1987	.1404834	.0186324	7.54	0.000	.1039606	.1770063
_Iyear_1988	.186802	.0189701	9.85	0.000	.1496174	.2239867
_Iyear_1989	.2376259	.018937	12.55	0.000	.2005061	.2747458
_Iyear_1990	.2777983	.0186573	14.89	0.000	.2412268	.3143697
_Iyear_1991	.3066127	.0186358	16.45	0.000	.2700832	.3431422

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_Iyear_1992	.3785779	.0185742	20.38	0.000	.3421692	.4149867
_Iyear_1993	.4126199	.0188074	21.94	0.000	.3757541	.4494857
_Iyear_1994	.4089297	.0197338	20.72	0.000	.3702479	.4476115
_Iyear_1995	.3990237	.0208869	19.10	0.000	.3580817	.4399656
_Iyear_1996	.4672307	.0200131	23.35	0.000	.4280016	.5064599
_Iyear_1997	.4979529	.019725	25.24	0.000	.4592885	.5366174
_Iyear_1998	.5414391	.0200829	26.96	0.000	.5020731	.5808051
_Iyear_1999	.6300385	.0198597	31.72	0.000	.59111	.668967
_Iyear_2000	.6511533	.0200929	32.41	0.000	.6117677	.6905389
_Icentcity_2	.0208807	.0077872	2.68	0.007	.0056164	.0361449
_Icentcity_3	-.0573822	.0106178	-5.40	0.000	-.0781949	-.0365696
_cons	5.34178	.0357076	149.60	0.000	5.271787	5.411773

state	F(50, 11268) =		9.742	0.000	(51 categories)	

. outreg out union using guard_reg.out, replace
 (note: file guard_reg.out not found)

. xi: areg lnwage out union unionout college highschl sex i.race i.ethnic age
 agesq i.year i.centcity if guards=
 > =1, a(state)

i.race _Irace_1-5 (naturally coded; _Irace_1 omitted)
 i.ethnic _Iethnic_1-10 (naturally coded; _Iethnic_1 omitted)
 i.year _Iyear_1983-2000 (naturally coded; _Iyear_1983 omitted)
 i.centcity _Icentcity_1-3 (naturally coded; _Icentcity_1 omitted)

Number of obs = 11357
 F(39, 11267) = 163.67
 Prob > F = 0.0000
 R-squared = 0.3866
 Adj R-squared = 0.3817
 Root MSE = .33488

lnwage	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
out	-.1737672	.006843	-25.39	0.000	-.1871807	-.1603536
union	.2701254	.0127514	21.18	0.000	.2451304	.2951204
unionout	-.1374812	.0222463	-6.18	0.000	-.1810877	-.0938746
college	.0352433	.0070665	4.99	0.000	.0213917	.0490949
highschl	.0987808	.0093058	10.61	0.000	.0805398	.1170218
sex	.0667411	.0086625	7.70	0.000	.049761	.0837211
_Irace_2	-.0334725	.0090414	-3.70	0.000	-.0511952	-.0157498
_Irace_3	-.0454553	.0221459	-2.05	0.040	-.0888651	-.0020455
_Irace_4	-.0555423	.024507	-2.27	0.023	-.1035803	-.0075043
_Irace_5	-.0412768	.0653172	-0.63	0.527	-.1693099	.0867562
_Iethnic_2	.0337069	.109758	0.31	0.759	-.181438	.2488518
_Iethnic_3	-.028952	.036215	-0.80	0.424	-.0999396	.0420357
_Iethnic_4	.045887	.0339756	1.35	0.177	-.0207111	.112485
_Iethnic_5	.0208693	.0483463	0.43	0.666	-.0738979	.1156365
_Iethnic_6	-.0521248	.0358257	-1.45	0.146	-.1223495	.0180998
_Iethnic_7	.0815676	.041563	1.96	0.050	.0000968	.1630384
_Iethnic_8	.0613655	.0219083	2.80	0.005	.0184214	.1043096
_Iethnic_9	.0160326	.0394254	0.41	0.684	-.061248	.0933131
_Iethnic_10	(dropped)					
age	.0373867	.0011973	31.23	0.000	.0350399	.0397336
agesq	-.0004182	.0000135	-30.94	0.000	-.0004447	-.0003917
_Iyear_1984	.0591959	.0189592	3.12	0.002	.0220326	.0963592
_Iyear_1985	.0420984	.0202305	2.08	0.037	.0024431	.0817537
_Iyear_1986	.1101146	.0188009	5.86	0.000	.0732616	.1469677
_Iyear_1987	.1399069	.018602	7.52	0.000	.1034438	.1763701
_Iyear_1988	.1870058	.0189389	9.87	0.000	.1498823	.2241293
_Iyear_1989	.2374029	.0189059	12.56	0.000	.200344	.2744617
_Iyear_1990	.2783241	.0186267	14.94	0.000	.2418125	.3148358
_Iyear_1991	.3072062	.0186054	16.51	0.000	.2707363	.343676
_Iyear_1992	.3766726	.0185462	20.31	0.000	.3403188	.4130264
_Iyear_1993	.4116393	.0187771	21.92	0.000	.3748329	.4484457
_Iyear_1994	.4092659	.0197014	20.77	0.000	.3706477	.4478842

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_Iyear_1995	.3980669	.0208531	19.09	0.000	.3571912	.4389426
_Iyear_1996	.4668078	.0199803	23.36	0.000	.427643	.5059726
_Iyear_1997	.4982452	.0196926	25.30	0.000	.4596443	.5368461
_Iyear_1998	.5409698	.02005	26.98	0.000	.5016683	.5802713
_Iyear_1999	.6290259	.0198277	31.72	0.000	.5901602	.6678917
_Iyear_2000	.6497726	.0200611	32.39	0.000	.6104494	.6890959
_Icentcity_2	.0199831	.0077757	2.57	0.010	.0047413	.0352249
_Icentcity_3	-.0570334	.0106004	-5.38	0.000	-.0778121	-.0362548
_cons	5.340129	.0356498	149.79	0.000	5.270249	5.410009

state | F(50, 11267) = 9.798 0.000 (51 categories)

. outreg out union unionout using guard_reg.out, append

. xi: areg lnwage out union unionout PT college highschl sex i.race i.ethnic
age agesq i.year i.centcity if guar

> ds==1, a(state)

i.race _Irace_1-5 (naturally coded; _Irace_1 omitted)
i.ethnic _Iethnic_1-10 (naturally coded; _Iethnic_1 omitted)
i.year _Iyear_1983-2000 (naturally coded; _Iyear_1983 omitted)
i.centcity _Icentcity_1-3 (naturally coded; _Icentcity_1 omitted)

Number of obs = 11116
F(40, 11025) = 174.40
Prob > F = 0.0000
R-squared = 0.4117
Adj R-squared = 0.4069
Root MSE = .32842

lnwage	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
out	-.183031	.0068012	-26.91	0.000	-.1963625	-.1696995
union	.2490902	.0125827	19.80	0.000	.2244258	.2737545
unionout	-.1229757	.0219355	-5.61	0.000	-.1659731	-.0799783
PT	-.1830483	.0094997	-19.27	0.000	-.2016693	-.1644273
college	.0459385	.0070395	6.53	0.000	.0321398	.0597372
highschl	.0954708	.0092318	10.34	0.000	.0773748	.1135668
sex	.0587398	.0086157	6.82	0.000	.0418514	.0756281
_Irace_2	-.0418807	.0089778	-4.66	0.000	-.0594789	-.0242826
_Irace_3	-.0482583	.0220619	-2.19	0.029	-.0915037	-.005013
_Irace_4	-.0500332	.0244195	-2.05	0.040	-.0978997	-.0021666
_Irace_5	-.0593472	.0652403	-0.91	0.363	-.18723	.0685355
_Iethnic_2	.0533598	.1077079	0.50	0.620	-.1577671	.2644866
_Iethnic_3	-.0350901	.03579	-0.98	0.327	-.105245	.0350648
_Iethnic_4	.0347049	.0335018	1.04	0.300	-.0309646	.1003743
_Iethnic_5	.0222453	.0475194	0.47	0.640	-.0709013	.1153918
_Iethnic_6	-.0607777	.0352404	-1.72	0.085	-.1298552	.0082999
_Iethnic_7	.071047	.0411995	1.72	0.085	-.0097114	.1518054
_Iethnic_8	.0634942	.021659	2.93	0.003	.0210386	.1059498
_Iethnic_9	.0170722	.0387758	0.44	0.660	-.0589354	.0930798
_Iethnic_10	(dropped)					
age	.030741	.001238	24.83	0.000	.0283142	.0331677
agesq	-.0003392	.000014	-24.15	0.000	-.0003667	-.0003117
_Iyear_1984	.0570893	.0185949	3.07	0.002	.0206399	.0935387
_Iyear_1985	.0422865	.0198417	2.13	0.033	.0033931	.0811798
_Iyear_1986	.1104733	.0184419	5.99	0.000	.0743239	.1466226
_Iyear_1987	.1370988	.0182478	7.51	0.000	.1013298	.1728677
_Iyear_1988	.1837595	.0185775	9.89	0.000	.1473442	.2201748
_Iyear_1989	.2341556	.0185456	12.63	0.000	.1978029	.2705084
_Iyear_1990	.275193	.0182722	15.06	0.000	.2393761	.3110098
_Iyear_1991	.3080793	.0182515	16.88	0.000	.2723032	.3438555
_Iyear_1992	.3759348	.0181931	20.66	0.000	.3402729	.4115966
_Iyear_1993	.4105035	.0184189	22.29	0.000	.3743991	.4466078
_Iyear_1994	.4133826	.0196297	21.06	0.000	.3749049	.4518603
_Iyear_1995	.4032229	.0207974	19.39	0.000	.3624563	.4439895
_Iyear_1996	.4635875	.0199367	23.25	0.000	.4245081	.502667
_Iyear_1997	.4945279	.0197194	25.08	0.000	.4558744	.5331814

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_Iyear_1998	.5353828	.0201002	26.64	0.000	.4959828	.5747829
_Iyear_1999	.6329758	.0197288	32.08	0.000	.5943039	.6716478
_Iyear_2000	.6427222	.0199721	32.18	0.000	.6035734	.681871
_Icentcity_2	.0231102	.0077134	3.00	0.003	.0079905	.0382299
_Icentcity_3	-.0530662	.0105073	-5.05	0.000	-.0736623	-.0324701
_cons	5.498545	.0362355	151.74	0.000	5.427516	5.569573

state | F(50, 11025) = 10.307 0.000 (51 categories)

. outreg out union unionout using guard_reg.out, append

. xi: areg lnwage out union unionout PT PTout college highschl sex i.race
i.ethnic age agesq i.year i.centcity if
> guards==1, a(state)

i.race _Irace_1-5 (naturally coded; _Irace_1 omitted)
i.ethnic _Iethnic_1-10 (naturally coded; _Iethnic_1 omitted)
i.year _Iyear_1983-2000 (naturally coded; _Iyear_1983 omitted)
i.centcity _Icentcity_1-3 (naturally coded; _Icentcity_1 omitted)

Number of obs = 11116
F(41, 11024) = 172.93
Prob > F = 0.0000
R-squared = 0.4154
Adj R-squared = 0.4106
Root MSE = .32739

lnwage	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
out	-.2066198	.0073408	-28.15	0.000	-.221009	-.1922305
union	.2407015	.0125832	19.13	0.000	.2160361	.2653669
unionout	-.1085527	.0219345	-4.95	0.000	-.1515482	-.0655572
PT	-.2472704	.0121814	-20.30	0.000	-.2711482	-.2233927
PTout	.1519601	.0181295	8.38	0.000	.116423	.1874973
college	.0469295	.0070185	6.69	0.000	.033172	.060687
highschl	.095716	.009203	10.40	0.000	.0776764	.1137555
sex	.0555207	.0085974	6.46	0.000	.0386683	.072373
_Irace_2	-.0416168	.0089498	-4.65	0.000	-.0591601	-.0240736
_Irace_3	-.0496143	.0219936	-2.26	0.024	-.0927256	-.006503
_Irace_4	-.0507949	.0243433	-2.09	0.037	-.0985122	-.0030777
_Irace_5	-.0594353	.0650364	-0.91	0.361	-.1869183	.0680477
_Iethnic_2	.0679801	.1073854	0.63	0.527	-.1425144	.2784747
_Iethnic_3	-.0359176	.0356783	-1.01	0.314	-.1058534	.0340183
_Iethnic_4	.0355254	.0333972	1.06	0.287	-.029939	.1009899
_Iethnic_5	.0261382	.0473731	0.55	0.581	-.0667216	.1189981
_Iethnic_6	-.0579057	.0351319	-1.65	0.099	-.1267706	.0109591
_Iethnic_7	.0707639	.0410707	1.72	0.085	-.0097421	.1512699
_Iethnic_8	.0649862	.0215921	3.01	0.003	.0226619	.1073106
_Iethnic_9	.0165107	.0386547	0.43	0.669	-.0592594	.0922808
_Iethnic_10	(dropped)					
age	.0300075	.0012373	24.25	0.000	.0275823	.0324327
agesq	-.0003321	.000014	-23.68	0.000	-.0003596	-.0003046
_Iyear_1984	.0554472	.0185378	2.99	0.003	.0191098	.0917847
_Iyear_1985	.0403393	.0197811	2.04	0.041	.0015649	.0791137
_Iyear_1986	.1081897	.0183862	5.88	0.000	.0721494	.14423
_Iyear_1987	.1340706	.0181943	7.37	0.000	.0984064	.1697347
_Iyear_1988	.1829278	.0185197	9.88	0.000	.1466258	.2192298
_Iyear_1989	.2336091	.0184878	12.64	0.000	.1973697	.2698484
_Iyear_1990	.2730048	.018217	14.99	0.000	.2372963	.3087134
_Iyear_1991	.3075232	.0181945	16.90	0.000	.2718586	.3431878
_Iyear_1992	.3738396	.018138	20.61	0.000	.3382859	.4093934
_Iyear_1993	.409309	.0183619	22.29	0.000	.3733164	.4453016
_Iyear_1994	.4125283	.0195686	21.08	0.000	.3741703	.4508862
_Iyear_1995	.3991941	.020738	19.25	0.000	.358544	.4398442
_Iyear_1996	.4615431	.0198758	23.22	0.000	.4225829	.5005033
_Iyear_1997	.4912269	.0196617	24.98	0.000	.4526865	.5297673
_Iyear_1998	.5347305	.0200376	26.69	0.000	.4954533	.5740077
_Iyear_1999	.6291853	.0196723	31.98	0.000	.5906241	.6677466

```

                                Regs_April2006_print[1].txt
  _Iyear_2000 | .6412842 .0199104 32.21 0.000 .6022563 .6803121
  _Icentcity_2 | .0227034 .0076895 2.95 0.003 .0076307 .0377762
  _Icentcity_3 | -.0530139 .0104744 -5.06 0.000 -.0735456 -.0324822
  _cons | 5.529262 .0363077 152.29 0.000 5.458093 5.600432

```

```
-----+-----
state | F(50, 11024) = 10.524 0.000 (51 categories)
```

```
. outreg out union unionout PTout using guard_reg.out, append
```

```
. type janitor_reg.out
```

```

(1) (2) (3) (4)
lnwage lnwage lnwage lnwage
out -0.060 -0.055 -0.048 -0.071
(12.66)** (11.14)** (9.62)** (11.96)**
union 0.330 0.334 0.306 0.303
(65.34)** (62.85)** (57.95)** (57.21)**
unionout -0.039 -0.038 -0.024
(2.74)** (2.67)** (1.65)
PTout 0.071
(7.13)**
Constant 5.260 5.261 5.460 5.473
(296.45)** (296.49)** (296.00)** (295.57)**
Observations 33878 33878 33222 33222
R-squared 0.41 0.41 0.44 0.44
Absolute value of t statistics in parentheses
* significant at 5%; ** significant at 1%

```

```
. type guard_reg.out
```

```

(1) (2) (3) (4)
lnwage lnwage lnwage lnwage
out -0.186 -0.174 -0.183 -0.207
(28.49)** (25.39)** (26.91)** (28.15)**
union 0.228 0.270 0.249 0.241
(21.18)** (21.18)** (19.80)** (19.13)**
unionout -0.137 -0.123 -0.109
(6.18)** (5.61)** (4.95)**
PTout 0.152
(8.38)**
Constant 5.342 5.340 5.499 5.529
(149.60)** (149.79)** (151.74)** (152.29)**
Observations 11357 11357 11116 11116
R-squared 0.38 0.39 0.41 0.42
Absolute value of t statistics in parentheses
* significant at 5%; ** significant at 1%

```

```

. xi: dprobit PT out union college highschl sex i.race i.ethnic age agesq
i.year i.centcity i.state if janitor==
> 1 [pw=earnwt]
i.race _Irace_1-5 (naturally coded; _Irace_1 omitted)
i.ethnic _Iethnic_1-10 (naturally coded; _Iethnic_1 omitted)
i.year _Iyear_1983-2000 (naturally coded; _Iyear_1983 omitted)
i.centcity _Icentcity_1-3 (naturally coded; _Icentcity_1 omitted)
i.state _Istate_11-95 (naturally coded; _Istate_11 omitted)

```

```
note: _Iethnic_10 != 0 predicts failure perfectly
_Iethnic_10 dropped and 1 obs not used
```

```

(sum of wgt is 2.4887e+08)
Iteration 0: log pseudo-likelihood = -18011.582
Iteration 1: log pseudo-likelihood = -14475.091
Iteration 2: log pseudo-likelihood = -14307.026
Iteration 3: log pseudo-likelihood = -14302.889
Iteration 4: log pseudo-likelihood = -14302.882

```

```
note: _Iethnic_10 != 0 predicts failure perfectly
_Iethnic_10 dropped and 1 obs not used
```

Probit estimates

Number of obs = 33221
 Wald chi2(88) = 4337.76
 Prob > chi2 = 0.0000
 Pseudo R2 = 0.2059

Log pseudo-likelihood = -14302.882

PT	dF/dx	Robust Std. Err.	z	P> z	x-bar	[95% C.I.]
out*	.0787608	.0079215	10.68	0.000	.178527	.063235	.094287	
union*	-.1849925	.0043678	-26.33	0.000	.155608	-.193553	-.176432	
college*	.0811984	.0081455	10.68	0.000	.176749	.065233	.097163	
highsch1*	-.0498341	.0059876	-8.45	0.000	.608049	-.06157	-.038099	
sex*	-.1928198	.0065799	-31.31	0.000	.693903	-.205716	-.179923	
_Irace_2*	-.0342004	.0071008	-4.63	0.000	.225268	-.048118	-.020283	
_Irace_3*	-.0064175	.0169235	-0.37	0.708	.018511	-.039587	.026752	
_Irace_4*	-.0609066	.0166967	-3.17	0.002	.0166	-.093632	-.028182	
_Irace_5*	-.0179263	.0381261	-0.45	0.650	.003592	-.092652	.0568	
_Iethn~2*	.031983	.0720574	0.47	0.641	.00141	-.109247	.173213	
_Iethn~3*	-.0482902	.0163658	-2.69	0.007	.067543	-.080367	-.016214	
_Iethn~4*	-.0052481	.0323581	-0.16	0.872	.012982	-.068669	.058173	
_Iethn~5*	-.0078401	.0341206	-0.23	0.821	.008243	-.074715	.059035	
_Iethn~6*	-.005742	.021344	-0.27	0.790	.036946	-.047575	.036091	
_Iethn~7*	.0524808	.0351979	1.60	0.109	.00968	-.016506	.121467	
_Iethn~8*	.0886487	.0125875	6.19	0.000	.81259	.063978	.11332	
_Iethn~9*	.0618	.035291	1.90	0.058	.009739	-.007369	.130969	
age	-.0433325	.0010283	-42.59	0.000	39.0423	-.045348	-.041317	
agesq	.0005009	.0000124	40.86	0.000	1753.4	.000477	.000525	
_Iy~1984*	.0005924	.0127395	0.05	0.963	.062043	-.024377	.025561	
_Iy~1985*	-.0271802	.0126633	-2.04	0.041	.047656	-.052	-.002361	
_Iy~1986*	-.0114172	.0125856	-0.89	0.373	.061249	-.036085	.01325	
_Iy~1987*	-.0215196	.0121313	-1.71	0.087	.061242	-.045296	.002257	
_Iy~1988*	-.0265909	.0122798	-2.07	0.039	.062277	-.050659	-.002523	
_Iy~1989*	-.0147602	.0129412	-1.11	0.266	.062497	-.040124	.010604	
_Iy~1990*	-.0356044	.0118731	-2.81	0.005	.062642	-.058875	-.012333	
_Iy~1991*	-.0136312	.0131565	-1.01	0.311	.060951	-.039417	.012155	
_Iy~1992*	-.0222966	.0129709	-1.65	0.098	.062658	-.047719	.003126	
_Iy~1993*	-.034728	.0128431	-2.54	0.011	.060329	-.0599	-.009556	
_Iy~1994*	-.0386621	.0128071	-2.80	0.005	.046355	-.063763	-.013561	
_Iy~1995*	-.0343828	.014384	-2.24	0.025	.035083	-.062575	-.006191	
_Iy~1996*	-.0463082	.0126227	-3.35	0.001	.053837	-.071048	-.021568	
_Iy~1997*	-.0519106	.0121282	-3.85	0.000	.052663	-.075681	-.02814	
_Iy~1998*	-.0617859	.0118571	-4.56	0.000	.053381	-.085025	-.038547	
_Iy~1999*	-.0560002	.012429	-4.00	0.000	.051006	-.08036	-.03164	
_Iy~2000*	-.0700657	.0110862	-5.41	0.000	.054868	-.091794	-.048337	
_Icent~2*	.01227	.006598	1.87	0.062	.371222	-.000662	.025202	
_Icent~3*	.0158998	.0077065	2.09	0.037	.264778	.000795	.031004	
_Ista~12*	.0204521	.0450062	0.47	0.639	.002346	-.067758	.108663	
_Ista~13*	.0164494	.0371448	0.45	0.649	.002163	-.056353	.089252	
_Ista~14*	.0257641	.0331075	0.81	0.419	.020624	-.039125	.090654	
_Ista~15*	.0309962	.0404096	0.80	0.421	.003526	-.048205	.110197	
_Ista~16*	.1044421	.0502536	2.33	0.020	.00928	.005947	.202937	
_Ista~21*	.0441998	.0329043	1.42	0.155	.064897	-.020292	.108691	
_Ista~22*	.0203919	.0333809	0.63	0.528	.021007	-.045033	.085817	
_Ista~23*	.0396222	.0329215	1.27	0.204	.048284	-.024903	.104147	
_Ista~31*	.0477989	.0333157	1.53	0.127	.054035	-.017499	.113096	
_Ista~32*	.0168401	.0344122	0.50	0.615	.028899	-.050606	.084287	
_Ista~33*	.0105597	.0302295	0.35	0.723	.057333	-.048689	.069809	
_Ista~34*	.0160833	.0307466	0.54	0.592	.044698	-.044179	.076346	
_Ista~35*	.137875	.0410335	3.83	0.000	.027313	.057451	.218299	
_Ista~41*	.1330933	.042724	3.55	0.000	.022487	.049356	.216831	
_Ista~42*	.0687019	.0401417	1.87	0.062	.01055	-.009974	.147378	
_Ista~43*	-.002194	.0333042	-0.07	0.948	.023298	-.067469	.063081	
_Ista~44*	.1111262	.0453057	2.77	0.006	.00152	.022329	.199924	
_Ista~45*	.0794131	.0403433	2.17	0.030	.00267	.000342	.158484	
_Ista~46*	.0373858	.0358644	1.10	0.271	.006871	-.032907	.107679	

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_Ista~47*	.0272428	.0350559	0.81	0.418	.011702	-.041465	.095951
_Ista~51*	-.1017353	.0281561	-2.60	0.009	.001006	-.15692	-.04655
_Ista~52*	.0268749	.0396625	0.71	0.480	.016066	-.050862	.104612
_Ista~53*	-.0112446	.0314834	-0.35	0.726	.005934	-.072951	.050462
_Ista~54*	-.021304	.030404	-0.67	0.501	.026593	-.080895	.038287
_Ista~55*	.0401117	.0422214	1.01	0.314	.004167	-.042641	.122864
_Ista~56*	-.0708534	.0223059	-2.68	0.007	.02578	-.114572	-.027135
_Ista~57*	-.0074815	.0341989	-0.22	0.829	.011034	-.07451	.059547
_Ista~58*	-.0464739	.0274969	-1.53	0.125	.029095	-.100367	.007419
_Ista~59*	-.0344416	.0271222	-1.19	0.234	.04584	-.0876	.018717
_Ista~61*	-.02945	.030185	-0.92	0.357	.016712	-.088612	.029712
_Ista~62*	-.0307333	.0299712	-0.97	0.335	.021316	-.089476	.028009
_Ista~63*	-.0116564	.0348876	-0.33	0.744	.012006	-.080035	.056722
_Ista~64*	-.0291586	.0311213	-0.88	0.377	.009245	-.090155	.031838
_Ista~71*	-.0358244	.030254	-1.10	0.272	.008483	-.095121	.023472
_Ista~72*	-.0148571	.0353484	-0.41	0.683	.012459	-.084139	.054424
_Ista~73*	-.0498463	.027009	-1.65	0.098	.01392	-.102783	.00309
_Ista~74*	-.0256052	.0274436	-0.89	0.371	.077109	-.079394	.028183
_Ista~81*	.0810737	.0413506	2.16	0.030	.00281	.000028	.162119
_Ista~82*	.059311	.0393198	1.63	0.102	.003759	-.017754	.136376
_Ista~83*	.0109449	.0408597	0.27	0.785	.00103	-.069139	.091028
_Ista~84*	.0576764	.0406013	1.53	0.125	.011849	-.021901	.137253
_Ista~85*	.0417675	.0411107	1.08	0.281	.004407	-.038808	.122343
_Ista~86*	-.0308323	.0320119	-0.91	0.365	.016208	-.093575	.03191
_Ista~87*	.1252588	.0439095	3.24	0.001	.00695	.039198	.21132
_Ista~88*	-.0790691	.0271249	-2.35	0.019	.004886	-.132233	-.025905
_Ista~91*	.0606654	.0420897	1.56	0.118	.015628	-.021829	.14316
_Ista~92*	.091864	.0452708	2.26	0.024	.009283	.003135	.180593
_Ista~93*	.0326245	.0321902	1.06	0.291	.109906	-.030467	.095716
_Ista~94*	.0482592	.0371339	1.39	0.164	.003576	-.024522	.12104
_Ista~95*	.1197222	.0466876	2.90	0.004	.006148	.028216	.211228

obs. P | .2324122
 pred. P | .1789769 (at x-bar)

(*) dF/dx is for discrete change of dummy variable from 0 to 1
 z and P>|z| are the test of the underlying coefficient being 0

```
. xi: dprobit PT out union college highscl sex i.race i.ethnic age agesq
i.year i.centcity i.state if guards==1
> [pw=earnwt]
i.race      _Irace_1-5      (naturally coded; _Irace_1 omitted)
i.ethnic    _Iethnic_1-10  (naturally coded; _Iethnic_1 omitted)
i.year      _Iyear_1983-2000 (naturally coded; _Iyear_1983 omitted)
i.centcity  _Icentcity_1-3  (naturally coded; _Icentcity_1 omitted)
i.state     _Istate_11-95   (naturally coded; _Istate_11 omitted)
```

(sum of wgt is 8.7863e+07)
 note: _Iethnic_10 dropped due to collinearity
 Iteration 0: log pseudo-likelihood = -4564.8759
 Iteration 1: log pseudo-likelihood = -3848.5743
 Iteration 2: log pseudo-likelihood = -3823.27
 Iteration 3: log pseudo-likelihood = -3822.9875
 Iteration 4: log pseudo-likelihood = -3822.9874

note: _Iethnic_10 dropped due to collinearity

Probit estimates Number of obs = 11116
 Wald chi2(88) = 1044.37
 Prob > chi2 = 0.0000
 Pseudo R2 = 0.1625
 Log pseudo-likelihood = -3822.9874

PT	dF/dx	Robust Std. Err.	z	P> z	x-bar	[95% C.I.]
out*	-.0350009	.0066987	-5.19	0.000	.484638	-.04813 -.021872
union*	-.0837956	.0068254	-8.29	0.000	.103279	-.097173 -.070418

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college*	.0736072	.0079	9.69	0.000	.411227	.058124	.089091
highsch1*	-.0478979	.0119422	-4.39	0.000	.831434	-.071304	-.024492
sex*	-.0508248	.0104919	-5.31	0.000	.841418	-.071389	-.030261
_Irace_2*	-.0319532	.0088502	-3.36	0.001	.244954	-.049299	-.014607
_Irace_3*	-.0210267	.0225776	-0.86	0.390	.015937	-.065278	.023225
_Irace_4*	-.0044331	.0256397	-0.17	0.865	.017883	-.054686	.04582
_Irace_5*	-.0503602	.042072	-0.92	0.357	.001709	-.13282	.032099
_Iethn~2*	.0838631	.1286389	0.78	0.436	.000583	-.168265	.335991
_Iethn~3*	-.0117093	.0374506	-0.30	0.764	.014071	-.085111	.061693
_Iethn~4*	-.0364506	.0260566	-1.20	0.232	.01746	-.087521	.014619
_Iethn~5*	.0277613	.0546651	0.55	0.583	.007068	-.07938	.134903
_Iethn~6*	-.0085028	.0378353	-0.22	0.827	.014074	-.082659	.065653
_Iethn~7*	-.0485589	.0352229	-1.08	0.280	.007391	-.117594	.020477
_Iethn~8*	.0210561	.0211427	0.93	0.351	.900656	-.020383	.062495
_Iethn~9*	.0129218	.0410528	0.33	0.743	.00898	-.06754	.093384
age	-.0267395	.001286	-21.04	0.000	39.675	-.02926	-.024219
agesq	.0003164	.0000146	21.99	0.000	1833.75	.000288	.000345
_Iy~1984*	-.0086563	.0165496	-0.51	0.611	.054551	-.041093	.02378
_Iy~1985*	-.0066537	.0175359	-0.37	0.710	.041163	-.041023	.027716
_Iy~1986*	-.007384	.0165101	-0.44	0.662	.054604	-.039743	.024975
_Iy~1987*	-.0158538	.0158632	-0.95	0.343	.05924	-.046945	.015238
_Iy~1988*	-.0266077	.0153793	-1.57	0.116	.061214	-.05675	.003535
_Iy~1989*	-.0185552	.0165719	-1.05	0.293	.060048	-.051035	.013925
_Iy~1990*	-.0296281	.0143638	-1.85	0.064	.059428	-.057781	-.001476
_Iy~1991*	-.0062824	.0167782	-0.37	0.713	.061469	-.039167	.026602
_Iy~1992*	.0014981	.0180092	0.08	0.933	.064902	-.033799	.036796
_Iy~1993*	-.0219809	.0154653	-1.32	0.187	.063151	-.052292	.00833
_Iy~1994*	-.0075152	.0188499	-0.39	0.697	.052366	-.04446	.02943
_Iy~1995*	-.0135497	.0181559	-0.71	0.476	.042222	-.049135	.022035
_Iy~1996*	-.0442205	.0143462	-2.56	0.011	.055733	-.072339	-.016102
_Iy~1997*	-.0227492	.016468	-1.27	0.203	.056676	-.055026	.009527
_Iy~1998*	-.0552021	.0130469	-3.28	0.001	.053225	-.080774	-.029631
_Iy~1999*	-.0328752	.0155951	-1.86	0.063	.056584	-.063441	-.002309
_Iy~2000*	-.053059	.012985	-3.23	0.001	.055155	-.078509	-.027609
_Icent~2*	.0140858	.0080925	1.76	0.079	.422395	-.001775	.029947
_Icent~3*	.0134844	.011277	1.23	0.218	.167781	-.008618	.035587
_Ista~12*	.0093089	.071919	0.13	0.894	.001552	-.13165	.150267
_Ista~13*	.1375985	.1062983	1.63	0.103	.00073	-.070742	.345939
_Ista~14*	.102865	.0748068	1.67	0.095	.025609	-.043754	.249484
_Ista~15*	.1630415	.0964018	2.16	0.031	.004046	-.025903	.351986
_Ista~16*	.0548548	.0728868	0.86	0.390	.012545	-.088001	.19771
_Ista~21*	.1097124	.0723955	1.83	0.067	.083412	-.03218	.251605
_Ista~22*	.0865203	.0721743	1.43	0.153	.03062	-.054939	.227979
_Ista~23*	.1092548	.0742251	1.79	0.073	.050352	-.036224	.254733
_Ista~31*	.0526738	.0627807	0.95	0.343	.045911	-.070374	.175722
_Ista~32*	.0586936	.071567	0.94	0.346	.017467	-.081575	.198962
_Ista~33*	.0499852	.0619913	0.91	0.365	.049522	-.071515	.171486
_Ista~34*	.0389351	.0597996	0.72	0.472	.036389	-.07827	.15614
_Ista~35*	.1147792	.0820253	1.72	0.085	.018497	-.045987	.275546
_Ista~41*	.0613924	.0724297	0.98	0.328	.013109	-.080567	.203352
_Ista~42*	.2096209	.1035187	2.64	0.008	.00642	.006728	.412514
_Ista~43*	.0549374	.0730571	0.86	0.391	.020441	-.088252	.198127
_Ista~44*	.0668182	.0977295	0.80	0.425	.000485	-.124728	.258364
_Ista~45*	.0677353	.0763641	1.04	0.300	.001506	-.081935	.217406
_Ista~46*	.0479818	.0720888	0.75	0.452	.003631	-.09331	.189273
_Ista~47*	.0175119	.0613014	0.30	0.763	.00678	-.102637	.13766
_Ista~51*	-.056634	.0561044	-0.73	0.462	.000586	-.166597	.053329
_Ista~52*	-.0297396	.04405	-0.60	0.550	.016893	-.116076	.056597
_Ista~53*	-.020853	.0450821	-0.43	0.670	.007449	-.109212	.067506
_Ista~54*	.0442759	.0650614	0.76	0.447	.023152	-.083242	.171794
_Ista~55*	.0238458	.0698131	0.37	0.714	.003804	-.112985	.160677
_Ista~56*	.0569732	.0662495	0.98	0.325	.020347	-.072873	.18682
_Ista~57*	.0140483	.0608302	0.24	0.810	.011047	-.105177	.133273
_Ista~58*	.0067877	.0567523	0.12	0.903	.020676	-.104445	.11802
_Ista~59*	-.006653	.0467933	-0.14	0.889	.064699	-.098366	.08506
_Ista~61*	.0265176	.0594593	0.48	0.631	.016525	-.090021	.143056
_Ista~62*	.0252741	.062487	0.43	0.664	.02134	-.097198	.147746
_Ista~63*	.037873	.0657249	0.64	0.524	.012298	-.090945	.166691

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_Ista~64*	-.0278392	.0453722	-0.55	0.584	.01059	-.116767	.061089
_Ista~71*	.0266862	.0692046	0.42	0.677	.005725	-.108952	.162325
_Ista~72*	-.0255614	.0460645	-0.50	0.616	.019679	-.115846	.064723
_Ista~73*	.0320351	.0644202	0.54	0.587	.010401	-.094226	.158297
_Ista~74*	-.0364317	.0379999	-0.84	0.403	.068452	-.110908	.038045
_Ista~81*	.0259088	.0727361	0.38	0.701	.001037	-.116651	.168469
_Ista~82*	.0901524	.0858244	1.26	0.206	.002175	-.07806	.258365
_Ista~83*	.0750818	.1021744	0.87	0.385	.000428	-.125176	.27534
_Ista~84*	.0937355	.0811763	1.39	0.163	.011074	-.065367	.252838
_Ista~85*	.018049	.0703503	0.27	0.786	.003288	-.119835	.155933
_Ista~86*	.0067223	.0535049	0.13	0.898	.018586	-.098145	.11159
_Ista~87*	.0543855	.0729139	0.85	0.394	.004232	-.088523	.197294
_Ista~88*	-.0660702	.0264167	-1.68	0.093	.011116	-.117846	-.014294
_Ista~91*	.1690013	.0999567	2.17	0.030	.013512	-.02691	.364913
_Ista~92*	.0140134	.0615705	0.24	0.812	.010589	-.106663	.134689
_Ista~93*	.0488082	.0581287	0.92	0.356	.14996	-.065122	.162738
_Ista~94*	-.0013249	.0563326	-0.02	0.981	.001828	-.111735	.109085
_Ista~95*	.0522889	.0709431	0.84	0.402	.007627	-.086757	.191335

obs. P | .1431597
 pred. P | .1061549 (at x-bar)

(*) dF/dx is for discrete change of dummy variable from 0 to 1
 z and P>|z| are the test of the underlying coefficient being 0

```
. xi: dprobit union out PT college highscl sex i.race i.ethnic age agesq
i.year i.centcity i.state if janitor=
> =1 [pw=earnwt]
i.race      _Irace_1-5      (naturally coded; _Irace_1 omitted)
i.ethnic    _Iethnic_1-10  (naturally coded; _Iethnic_1 omitted)
i.year      _Iyear_1983-2000 (naturally coded; _Iyear_1983 omitted)
i.centcity  _Icentcity_1-3  (naturally coded; _Icentcity_1 omitted)
i.state     _Istate_11-95   (naturally coded; _Istate_11 omitted)
```

note: _Iethnic_10 != 0 predicts success perfectly
 _Iethnic_10 dropped and 1 obs not used

(sum of wgt is 2.4887e+08)
 Iteration 0: log pseudo-likelihood = -14361.897
 Iteration 1: log pseudo-likelihood = -10996.295
 Iteration 2: log pseudo-likelihood = -10566.062
 Iteration 3: log pseudo-likelihood = -10532.659
 Iteration 4: log pseudo-likelihood = -10532.343
 Iteration 5: log pseudo-likelihood = -10532.343

note: _Iethnic_10 != 0 predicts success perfectly
 _Iethnic_10 dropped and 1 obs not used

Probit estimates Number of obs = 33221
 Wald chi2(88) = 2797.30
 Prob > chi2 = 0.0000
 Pseudo R2 = 0.2666
 Log pseudo-likelihood = -10532.343

union	dF/dx	Robust Std. Err.	z	P> z	x-bar	[95% C.I.]
out*	-.0250762	.0039205	-5.82	0.000	.178527	-.03276	-.017392	
PT*	-.0958063	.003183	-24.29	0.000	.232412	-.102045	-.089568	
college*	.0035879	.0043809	0.83	0.408	.176749	-.004999	.012174	
highscl*	.0210231	.0034591	5.92	0.000	.608049	.014243	.027803	
sex*	.0146694	.0034235	4.15	0.000	.693903	.007959	.021379	
_Irace_2*	.0296146	.005265	6.11	0.000	.225268	.019295	.039934	
_Irace_3*	-.0250628	.0084945	-2.51	0.012	.018511	-.041712	-.008414	
_Irace_4*	-.027373	.0099636	-2.29	0.022	.0166	-.046901	-.007845	
_Irace_5*	-.0135072	.0222817	-0.56	0.575	.003592	-.057179	.030164	

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_Iethn~2*	-.067877	.0074542	-2.70	0.007	.00141	-.082487	-.053267
_Iethn~3*	-.035504	.0081677	-3.49	0.000	.067543	-.051512	-.019496
_Iethn~4*	-.0067874	.0135682	-0.48	0.630	.012982	-.033381	.019806
_Iethn~5*	.0129076	.0226316	0.61	0.545	.008243	-.03145	.057265
_Iethn~6*	-.025654	.0095886	-2.29	0.022	.036946	-.044447	-.006861
_Iethn~7*	-.02099	.0139633	-1.32	0.188	.00968	-.048358	.006378
_Iethn~8*	-.0092259	.0105104	-0.90	0.367	.81259	-.029826	.011374
_Iethn~9*	.0233812	.0210907	1.22	0.222	.009739	-.017956	.064718
age	.012661	.0006779	18.16	0.000	39.0423	.011332	.01399
agesq	-.0001271	7.91e-06	-15.70	0.000	1753.4	-.000143	-.000112
_Iy~1984*	.2287214	.0235031	13.51	0.000	.062043	.182656	.274787
_Iy~1985*	.2239084	.0242105	12.87	0.000	.047656	.176457	.27136
_Iy~1986*	.2168108	.023197	12.94	0.000	.061249	.171346	.262276
_Iy~1987*	.2266001	.0235903	13.34	0.000	.061242	.180364	.272836
_Iy~1988*	.2039565	.0232377	12.13	0.000	.062277	.158412	.249502
_Iy~1989*	.1882139	.0228666	11.32	0.000	.062497	.143396	.233032
_Iy~1990*	.1941627	.0224287	11.91	0.000	.062642	.150203	.238122
_Iy~1991*	.1856778	.0223056	11.42	0.000	.060951	.14196	.229396
_Iy~1992*	.1771197	.0221391	10.93	0.000	.062658	.133728	.220511
_Iy~1993*	.1612041	.0219205	9.98	0.000	.060329	.118241	.204167
_Iy~1994*	-.03502	.009646	-2.86	0.004	.046355	-.053926	-.016114
_Iy~1995*	-.0464752	.0092326	-3.41	0.001	.035083	-.064571	-.02838
_Iy~1996*	-.0400373	.0086894	-3.49	0.000	.053837	-.057068	-.023006
_Iy~1997*	-.0532841	.0069282	-4.94	0.000	.052663	-.066863	-.039705
_Iy~1998*	-.0507159	.0077207	-4.32	0.000	.053381	-.065848	-.035584
_Iy~1999*	-.0565841	.0070297	-4.77	0.000	.051006	-.070362	-.042806
_Iy~2000*	-.0507991	.0075574	-4.43	0.000	.054868	-.065611	-.035987
_Icent~2*	-.0057811	.0038055	-1.51	0.131	.371222	-.01324	.001678
_Icent~3*	-.0213987	.0042043	-4.88	0.000	.264778	-.029639	-.013158
_Ista~12*	-.0323511	.0163664	-1.56	0.119	.002346	-.064429	-.000273
_Ista~13*	-.0377873	.012391	-2.26	0.024	.002163	-.062073	-.013501
_Ista~14*	.0129721	.0185017	0.74	0.458	.020624	-.023291	.049235
_Ista~15*	.0303074	.024798	1.38	0.168	.003526	-.018296	.078911
_Ista~16*	.0248629	.0251267	1.10	0.273	.00928	-.024385	.07411
_Ista~21*	.0994811	.0271157	4.71	0.000	.064897	.046335	.152627
_Ista~22*	.0348941	.0221667	1.80	0.072	.021007	-.008552	.07834
_Ista~23*	.0116023	.0175758	0.69	0.488	.048284	-.022846	.04605
_Ista~31*	.0239598	.0188763	1.39	0.164	.054035	-.013037	.060957
_Ista~32*	-.0071604	.0167783	-0.41	0.681	.028899	-.040045	.025725
_Ista~33*	.004414	.0164536	0.27	0.784	.057333	-.027834	.036662
_Ista~34*	.0520544	.0223576	2.76	0.006	.044698	.008234	.095875
_Ista~35*	.0104571	.0189923	0.58	0.564	.027313	-.026767	.047681
_Ista~41*	.0650272	.0269838	2.96	0.003	.022487	.01214	.117914
_Ista~42*	.001366	.0190263	0.07	0.942	.01055	-.035925	.038657
_Ista~43*	-.0265656	.0132981	-1.68	0.093	.023298	-.052629	-.000502
_Ista~44*	-.0534319	.0094267	-3.21	0.001	.00152	-.071908	-.034956
_Ista~45*	-.0265757	.0144565	-1.54	0.124	.00267	-.05491	.001758
_Ista~46*	-.0341372	.0125035	-2.12	0.034	.006871	-.058644	-.009631
_Ista~47*	-.0450212	.0099242	-3.07	0.002	.011702	-.064472	-.02557
_Ista~51*	-.0306432	.0182177	-1.35	0.178	.001006	-.066349	.005063
_Ista~52*	-.0060417	.0191512	-0.31	0.760	.016066	-.043577	.031494
_Ista~53*	-.0157284	.0147123	-0.97	0.330	.005934	-.044564	.013107
_Ista~54*	-.0571179	.0071903	-4.46	0.000	.026593	-.071211	-.043025
_Ista~55*	-.0023476	.0202329	-0.11	0.909	.004167	-.042003	.037308
_Ista~56*	-.0697929	.0039559	-7.21	0.000	.02578	-.077546	-.062039
_Ista~57*	-.0709653	.0040309	-5.21	0.000	.011034	-.078866	-.063065
_Ista~58*	-.0680431	.0048848	-5.71	0.000	.029095	-.077617	-.058469
_Ista~59*	-.0484019	.0085693	-3.85	0.000	.04584	-.065197	-.031606
_Ista~61*	-.0404405	.0105436	-2.79	0.005	.016712	-.061106	-.019775
_Ista~62*	-.0572094	.0071098	-4.35	0.000	.021316	-.071144	-.043274
_Ista~63*	-.0316126	.0138387	-1.82	0.068	.012006	-.058736	-.004489
_Ista~64*	-.0625646	.006141	-4.52	0.000	.009245	-.074601	-.050528
_Ista~71*	-.0580769	.0072127	-4.14	0.000	.008483	-.072213	-.04394
_Ista~72*	-.0394518	.0124764	-2.31	0.021	.012459	-.063905	-.014999
_Ista~73*	-.0523994	.0082925	-3.78	0.000	.01392	-.068653	-.036146
_Ista~74*	-.069897	.0055889	-6.66	0.000	.077109	-.080851	-.058943
_Ista~81*	.0013701	.0205764	0.07	0.947	.00281	-.038959	.041699
_Ista~82*	-.0415454	.011675	-2.51	0.012	.003759	-.064428	-.018663

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_Iy~1986*	.1274988	.0314853	5.70	0.000	.054604	.065789	.189209
_Iy~1987*	.1283205	.0314491	5.73	0.000	.05924	.066681	.18996
_Iy~1988*	.0885851	.0278955	4.23	0.000	.061214	.033911	.143259
_Iy~1989*	.0758074	.0262551	3.76	0.000	.060048	.024348	.127266
_Iy~1990*	.1483722	.0329281	6.43	0.000	.059428	.083834	.21291
_Iy~1991*	.1228159	.0307068	5.57	0.000	.061469	.062632	.183
_Iy~1992*	.1254311	.030539	5.74	0.000	.064902	.065576	.185286
_Iy~1993*	.0844785	.0273037	4.09	0.000	.063151	.030964	.137993
_Iy~1994*	-.0139814	.0153175	-0.82	0.412	.052366	-.044003	.01604
_Iy~1995*	-.0111194	.016292	-0.63	0.530	.042222	-.043051	.020812
_Iy~1996*	-.0187736	.0137932	-1.17	0.241	.055733	-.045808	.00826
_Iy~1997*	-.0231879	.0129912	-1.46	0.143	.056676	-.04865	.002274
_Iy~1998*	-.041755	.0096114	-2.62	0.009	.053225	-.060593	-.022917
_Iy~1999*	-.0376823	.0096454	-2.62	0.009	.056584	-.056587	-.018778
_Iy~2000*	-.0411208	.0092981	-2.73	0.006	.055155	-.059345	-.022897
_Icent~2*	-.0122833	.0052751	-2.31	0.021	.422395	-.022622	-.001944
_Icent~3*	.0050836	.0076417	0.68	0.496	.167781	-.009894	.020061
_Ista~12*	.1663625	.1154571	2.13	0.033	.001552	-.059929	.392654
_Ista~13*	-.0292936	.032025	-0.66	0.509	.00073	-.092061	.033474
_Ista~14*	.1324525	.0815899	2.32	0.020	.025609	-.027461	.292366
_Ista~15*	.1510913	.0971356	2.27	0.023	.004046	-.039291	.341473
_Ista~16*	.1507615	.0989488	2.23	0.026	.012545	-.043175	.344698
_Ista~21*	.2495788	.0983249	3.80	0.000	.083412	.056866	.442292
_Ista~22*	.2182563	.1010611	3.25	0.001	.03062	.02018	.416332
_Ista~23*	.1515039	.0837026	2.62	0.009	.050352	-.01255	.315558
_Ista~31*	.105059	.0726955	1.99	0.046	.045911	-.037422	.247539
_Ista~32*	.0988144	.0834685	1.63	0.103	.017467	-.064781	.26241
_Ista~33*	.2531315	.1030471	3.70	0.000	.049522	.051163	.4551
_Ista~34*	.1801991	.0917955	2.90	0.004	.036389	.000283	.360115
_Ista~35*	.1177698	.0834118	2.00	0.046	.018497	-.045714	.281254
_Ista~41*	.0292645	.0582774	0.58	0.559	.013109	-.084957	.143486
_Ista~42*	.151853	.1010995	2.20	0.028	.00642	-.046298	.350004
_Ista~43*	.1015766	.0773996	1.81	0.070	.020441	-.050124	.253277
_Ista~44*	.0917159	.097302	1.29	0.198	.000485	-.098992	.282424
_Ista~45*	.01899	.0552173	0.38	0.701	.001506	-.089234	.127214
_Ista~46*	.0282732	.0581904	0.56	0.573	.003631	-.085778	.142324
_Ista~47*	.0537699	.0709602	0.96	0.339	.00678	-.08531	.192849
_Ista~51*	.1252255	.1246071	1.44	0.151	.000586	-.119	.369451
_Ista~52*	.099543	.0817097	1.68	0.093	.016893	-.060605	.259691
_Ista~53*	.1105339	.078351	1.98	0.048	.007449	-.043031	.264099
_Ista~54*	.0364157	.0563067	0.77	0.440	.023152	-.073943	.146775
_Ista~55*	-.0246721	.0310061	-0.62	0.535	.003804	-.085443	.036099
_Ista~56*	-.006846	.0340335	-0.19	0.848	.020347	-.07355	.059858
_Ista~57*	-.0361682	.0251688	-0.91	0.365	.011047	-.085498	.013162
_Ista~58*	-.0121506	.0366608	-0.30	0.764	.020676	-.084004	.059703
_Ista~59*	.0480328	.0544156	1.08	0.280	.064699	-.05862	.154685
_Ista~61*	.0470222	.0599336	0.97	0.332	.016525	-.070446	.16449
_Ista~62*	.1376249	.0874018	2.27	0.023	.02134	-.03368	.308929
_Ista~63*	.032322	.0619721	0.61	0.539	.012298	-.089141	.153785
_Ista~64*	-.0103875	.0349547	-0.27	0.784	.01059	-.078897	.058122
_Ista~71*	.0713183	.0737873	1.27	0.204	.005725	-.073302	.215939
_Ista~72*	.0410441	.0577831	0.86	0.389	.019679	-.072209	.154297
_Ista~73*	.0344347	.057878	0.71	0.480	.010401	-.079004	.147873
_Ista~74*	.0180657	.0430459	0.46	0.644	.068452	-.066303	.102434
_Ista~81*	.1448907	.1015286	2.08	0.038	.001037	-.054102	.343883
_Ista~82*	.2470366	.1198666	3.13	0.002	.002175	.012102	.481971
_Ista~83*	.0203248	.0848135	0.27	0.788	.000428	-.145907	.186556
_Ista~84*	.1181456	.09049	1.85	0.064	.011074	-.059212	.295503
_Ista~85*	.0498474	.0740447	0.84	0.401	.003288	-.095278	.194972
_Ista~86*	-.0390598	.0188152	-1.24	0.215	.018586	-.075937	-.002183
_Ista~87*	.0065258	.0511081	0.13	0.894	.004232	-.093644	.106696
_Ista~88*	-.0066788	.0357456	-0.18	0.859	.011116	-.076739	.063381
_Ista~91*	.2349498	.1181606	3.01	0.003	.013512	.003359	.46654
_Ista~92*	.1046038	.0826023	1.76	0.078	.010589	-.057294	.266501
_Ista~93*	.1205009	.0688182	2.38	0.017	.14996	-.01438	.255382
_Ista~94*	.0688601	.070439	1.28	0.201	.001828	-.069198	.206918
_Ista~95*	.1892628	.1029957	2.75	0.006	.007627	-.012605	.391131

obs. P | .1032785
 pred. P | .055835 (at x-bar)

(*) dF/dx is for discrete change of dummy variable from 0 to 1
 z and P>|z| are the test of the underlying coefficient being 0

.
 .
 end of do-file

tab minsamp

Month in sample (4 & 8 are departing)	Freq.	Percent	Cum.
4	30,711	50.13	50.13
8	30,553	49.87	100.00
Total	61,264	100.00	

. do "C:\DOCUME~1\ARINDR~1\LOCALS~1\Temp\STD0g000000.tmp"

. ***** Longitudonal *****

. egen id = group(hhid lineno)

.
 .
 . sort id year

. egen cntyrs = count(id), by(id)

. tab cntyrs if janitor==1

cntyrs	Freq.	Percent	Cum.
1	30,490	65.86	65.86
2	13,079	28.25	94.11
3	1,984	4.29	98.40
4	592	1.28	99.68
5	111	0.24	99.92
6	25	0.05	99.97
7	7	0.02	99.98
8	7	0.02	100.00
Total	46,295	100.00	

. tab cntyrs if janitor==0

cntyrs	Freq.	Percent	Cum.
1	9,423	62.95	62.95
2	4,587	30.64	93.59
3	701	4.68	98.28
4	212	1.42	99.69
5	34	0.23	99.92
6	11	0.07	99.99
8	1	0.01	100.00
Total	14,969	100.00	

```
.
. drop if cntyrs ~=2
(43598 observations deleted)

.
.
. sort id year

.
.
. gen secondyr = 0

. replace secondyr=1 if id==id[_n-1]
(8833 real changes made)

.
.
. drop if ((age > age[_n-1]+2) | (age<age[_n-1])) & secondyr ==1
(1612 observations deleted)

.
.
. sort id year

. drop if sex ~= sex[_n-1] & secondyr ==1
(69 observations deleted)

.
.
. sort id year

. drop if college ~= college[_n-1] & secondyr ==1
(193 observations deleted)

.
. sort id year

. drop if highschl ~= highschl[_n-1] & secondyr ==1
(209 observations deleted)

.
.
. sort id year

. drop if race ~= race[_n-1]& secondyr ==1
(34 observations deleted)

.
.
. sort id year

. drop if ethnic ~= ethnic[_n-1] & secondyr ==1
```


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(29 observations deleted)

```
.  
. . sort id year  
  
. . drop if minsamp ==minsamp[_n-1] & secondyr ==1  
(26 observations deleted)
```

```
.  
. .  
. . drop cntyrs  
  
. . egen cntyrs = count(id), by(id)  
  
. .  
. . drop if cntyrs ~=2  
(2172 observations deleted)
```

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

```
. do "C:\DOCUME~1\ARINDR~1\LOCALS~1\Temp\STD0g000000.tmp"
```

```
. tab cntyrs
```

cntyrs	Freq.	Percent	Cum.
2	13,322	100.00	100.00
Total	13,322	100.00	

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

```
. do "C:\DOCUME~1\ARINDR~1\LOCALS~1\Temp\STD0g000000.tmp"
```

```
. gen switcher = 0
```

```
. sort id year
```

```
. replace switcher = 1 if OS ==1 & OS[_n+1]==0 & secondyr==0  
OS not found  
r(111);
```

```
end of do-file  
r(111);
```

```
. do "C:\DOCUME~1\ARINDR~1\LOCALS~1\Temp\STD0g000000.tmp"
```

```
. replace switcher = 1 if out ==1 & out[_n+1]==0 & secondyr==0  
(217 real changes made)
```

```
. sort id year
```

```
. replace switcher = 2 if out ==0 & out[_n+1]==1 & secondyr==0  
(209 real changes made)
```

```

: egen switcher = max(switcher), by(id)
switcher already defined
r(110);

end of do-file
r(110);

. do "C:\DOCUME~1\ARINDR~1\LOCALS~1\Temp\STD0g000000.tmp"

. egen stemp = max(switcher), by(id)

:
: replace switcher = stemp
(426 real changes made)

. drop stemp

:
: svytab switcher if janitor==1
too few variables specified
r(102);

end of do-file
r(102);

. do "C:\DOCUME~1\ARINDR~1\LOCALS~1\Temp\STD0g000000.tmp"

. svytable switcher if janitor==1
unrecognized command: svytable
r(199);

end of do-file
r(199);

. do "C:\DOCUME~1\ARINDR~1\LOCALS~1\Temp\STD0g000000.tmp"

. table switcher if janitor==1 [pw=earnwt]

-----
switcher |          Freq.
-----+-----
          0 |      6.57e+07
          1 |      1774934
          2 |      1925128
-----

. table switcher if guard==1 [pw=earnwt]
guard ambiguous abbreviation
r(111);

end of do-file
r(111);

. do "C:\DOCUME~1\ARINDR~1\LOCALS~1\Temp\STD0g000000.tmp"

. table switcher if guards==1 [pw=earnwt]

-----
switcher |          Freq.
-----+-----
          0 |      2.48e+07
          1 |      1507948
          2 |      1282675
-----

:
:

```


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highsch1					
switcher==0	.8213059	.0072482	.807095	.8355169	1.169068
switcher==1	.79182	.0330501	.7270214	.8566186	1.318242
switcher==2	.7602015	.037193	.6872803	.8331227	1.28408
college					
switcher==0	.3544727	.0094079	.3360275	.372918	1.263225
switcher==1	.3622433	.0420566	.2797865	.4447001	1.523097
switcher==2	.3413299	.0421414	.2587066	.4239531	1.336663
black					
switcher==0	.1998928	.008386	.1834511	.2163345	1.436011
switcher==1	.2657288	.0429896	.1814426	.350015	1.884289
switcher==2	.2130759	.039036	.1365413	.2896105	1.537831
latino					
switcher==0	.0697912	.0052429	.0595119	.0800705	1.382787
switcher==1	.1544357	.0329053	.089921	.2189503	1.6495
switcher==2	.0618607	.0180574	.0264571	.0972644	.9507651
female					
switcher==0	.1289601	.0064049	.1164026	.1415176	1.192676
switcher==1	.1094924	.027257	.0560518	.162933	1.51583
switcher==2	.1157124	.0276152	.0615696	.1698552	1.261153
age					
switcher==0	45.35221	.3055989	44.75305	45.95137	1.240947
switcher==1	38.96414	1.323495	36.36928	41.55901	1.403459
switcher==2	43.7646	1.589146	40.64889	46.88031	1.419531

```
. xi: reg lnwage out union age agesq highscl college i.race i.latino sex PT
i.year i.state if janitor==1 [aw=e
> arnwt]
i.race      _Irace_1-5      (naturally coded; _Irace_1 omitted)
i.latino    _Ilatino_0-1    (naturally coded; _Ilatino_0 omitted)
i.year      _Iyear_1983-2000 (naturally coded; _Iyear_1983 omitted)
i.state     _Istate_11-95   (naturally coded; _Istate_11 omitted)
(sum of wgt is 6.0946e+07)
```

Source	SS	df	MS	Number of obs =	8623
Model	503.818762	80	6.29773452	F(80, 8542) =	71.20
Residual	755.501147	8542	.088445463	Prob > F =	0.0000
				R-squared =	0.4001
				Adj R-squared =	0.3945
Total	1259.31991	8622	.146058908	Root MSE =	.2974

lnwage	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
out	-.0845044	.0091955	-9.19	0.000	-.1025297	-.0664791
union	.2805349	.0088109	31.84	0.000	.2632634	.2978064
age	.0237819	.0014413	16.50	0.000	.0209565	.0266072
agesq	-.0002328	.0000159	-14.62	0.000	-.000264	-.0002016
highsch1	.0776702	.0075415	10.30	0.000	.0628871	.0924534
college	.0377362	.0097593	3.87	0.000	.0186057	.0568668
_Irace_2	-.0458286	.0092162	-4.97	0.000	-.0638945	-.0277627
_Irace_3	-.0416357	.0264186	-1.58	0.115	-.0934225	.0101511
_Irace_4	-.0335968	.0317583	-1.06	0.290	-.0958507	.0286572
_Irace_5	.0427646	.0878653	0.49	0.626	-.1294727	.2150019
_Ilatino_1	-.0140448	.0115667	-1.21	0.225	-.0367184	.0086287
sex	.0737469	.0071768	10.28	0.000	.0596786	.0878153
PT	-.1964497	.0089433	-21.97	0.000	-.2139806	-.1789187
_Iyear_1984	.0696792	.0223676	3.12	0.002	.0258332	.1135252
_Iyear_1985	.0956359	.0265367	3.60	0.000	.0436176	.1476541
_Iyear_1986	.0976763	.0239534	4.08	0.000	.0507218	.1446308
_Iyear_1987	.1181838	.022177	5.33	0.000	.0747116	.1616561
_Iyear_1988	.1636782	.0219206	7.47	0.000	.1207086	.2066478

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_Iyear_1989	.2200402	.0217944	10.10	0.000	.1773178	.2627625
_Iyear_1990	.2549393	.0218845	11.65	0.000	.2120404	.2978382
_Iyear_1991	.2978384	.0218493	13.63	0.000	.2550085	.3406684
_Iyear_1992	.3051969	.0217341	14.04	0.000	.2625927	.347801
_Iyear_1993	.3292284	.0221476	14.87	0.000	.2858137	.372643
_Iyear_1994	.3772654	.0259595	14.53	0.000	.3263785	.4281523
_Iyear_1995	.3698991	.0297833	12.42	0.000	.3115167	.4282816
_Iyear_1996	.3546147	.0234927	15.09	0.000	.3085634	.400666
_Iyear_1997	.4150665	.0221413	18.75	0.000	.3716641	.4584688
_Iyear_1998	.4933082	.0225425	21.88	0.000	.4491196	.5374969
_Iyear_1999	.4828056	.0222987	21.65	0.000	.4390947	.5265164
_Iyear_2000	.5382979	.0251925	21.37	0.000	.4889144	.5876814
_Istate_12	.0739374	.0575361	1.29	0.199	-.0388472	.186722
_Istate_13	.0053383	.0772366	0.07	0.945	-.146064	.1567407
_Istate_14	.0502007	.0430135	1.17	0.243	-.0341162	.1345176
_Istate_15	.0317087	.0640646	0.49	0.621	-.0938734	.1572908
_Istate_16	.1166392	.0493728	2.36	0.018	.0198566	.2134219
_Istate_21	.0030087	.0392969	0.08	0.939	-.0740226	.08004
_Istate_22	.0410733	.042556	0.97	0.334	-.0423467	.1244933
_Istate_23	-.0652846	.0387457	-1.68	0.092	-.1412355	.0106664
_Istate_31	-.031407	.0393884	-0.80	0.425	-.1086179	.0458038
_Istate_32	-.0122964	.0410137	-0.30	0.764	-.0926933	.0681004
_Istate_33	-.0228012	.0390823	-0.58	0.560	-.099412	.0538097
_Istate_34	.0168635	.0401796	0.42	0.675	-.0618983	.0956253
_Istate_35	-.0133864	.0419201	-0.32	0.749	-.09556	.0687871
_Istate_41	.0290106	.0423144	0.69	0.493	-.0539359	.111957
_Istate_42	-.0491228	.0443257	-1.11	0.268	-.1360119	.0377664
_Istate_43	.0276016	.0424603	0.65	0.516	-.055631	.1108341
_Istate_44	-.1460324	.0678643	-2.15	0.031	-.2790628	-.013002
_Istate_45	-.0848549	.0632962	-1.34	0.180	-.2089308	.039221
_Istate_46	-.0768731	.0506056	-1.52	0.129	-.1760722	.0223261
_Istate_47	-.0034659	.0459621	-0.08	0.940	-.0935626	.0866308
_Istate_51	-.0030679	.0635104	-0.05	0.961	-.1275637	.1214279
_Istate_52	-.0753836	.0431333	-1.75	0.081	-.1599353	.009168
_Istate_53	-.0224802	.059856	-0.38	0.707	-.1398124	.094852
_Istate_54	-.041718	.0430438	-0.97	0.332	-.1260942	.0426582
_Istate_55	-.2175207	.055595	-3.91	0.000	-.3265004	-.1085411
_Istate_56	-.1030959	.0423517	-2.43	0.015	-.1861154	-.0200763
_Istate_57	-.0303076	.04686	-0.65	0.518	-.1221645	.0615493
_Istate_58	-.1307242	.0429869	-3.04	0.002	-.214989	-.0464595
_Istate_59	-.1331639	.0401531	-3.32	0.001	-.2118738	-.0544541
_Istate_61	-.1443138	.0433371	-3.33	0.001	-.2292649	-.0593626
_Istate_62	-.0574602	.0440326	-1.30	0.192	-.1437748	-.0288543
_Istate_63	-.1747595	.0478141	-3.65	0.000	-.2684866	-.0810323
_Istate_64	-.207661	.052584	-3.95	0.000	-.3107384	-.1045835
_Istate_71	-.1496459	.0500015	-2.99	0.003	-.247661	-.0516309
_Istate_72	-.1893877	.0465817	-4.07	0.000	-.2806991	-.0980763
_Istate_73	-.1147214	.0475332	-2.41	0.016	-.207898	-.0215448
_Istate_74	-.1446457	.039213	-3.69	0.000	-.2215126	-.0677787
_Istate_81	-.0879069	.0669624	-1.31	0.189	-.2191694	.0433556
_Istate_82	-.0291286	.0653664	-0.45	0.656	-.1572625	.0990054
_Istate_83	.0125102	.0713171	0.18	0.861	-.1272886	.1523089
_Istate_84	-.0122034	.0499582	-0.24	0.807	-.1101336	.0857268
_Istate_85	-.1283699	.0547948	-2.34	0.019	-.2357809	-.0209589
_Istate_86	-.1054441	.0460174	-2.29	0.022	-.1956494	-.0152388
_Istate_87	-.0128858	.0510162	-0.25	0.801	-.1128899	.0871184
_Istate_88	.0911938	.0601684	1.52	0.130	-.0267507	.2091383
_Istate_91	.0360136	.0451101	0.80	0.425	-.052413	.1244403
_Istate_92	.0447672	.0520026	0.86	0.389	-.0571705	.146705
_Istate_93	.0280076	.0390615	0.72	0.473	-.0485624	.1045775
_Istate_94	.3368256	.0700344	4.81	0.000	.1995412	.47411
_Istate_95	-.0741101	.0610135	-1.21	0.225	-.1937113	.0454912
_cons	5.595674	.052566	106.45	0.000	5.492632	5.698716

. outreg out using jan_long.out, replace

```
. xi: areg lnwage out union age agesq highscl college i.race i.latino sex PT
i.year i.state if janitor==1 [aw=
> earnwt], a(id)
i.race          _Irace_1-5          (naturally coded; _Irace_1 omitted)
i.latino        _Ilatino_0-1        (naturally coded; _Ilatino_0 omitted)
i.year          _Iyear_1983-2000    (naturally coded; _Iyear_1983 omitted)
i.state         _Istate_11-95       (naturally coded; _Istate_11 omitted)
```

```
Number of obs = 8623
F( 22, 4040) = 10.07
Prob > F      = 0.0000
R-squared     = 0.8690
Adj R-squared = 0.7205
Root MSE     = .20206
```

lnwage	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
out	-.0722766	.0200226	-3.61	0.000	-.1115319	-.0330213
union	.0410532	.0153949	2.67	0.008	.0108706	.0712357
age	.0432571	.0258359	1.67	0.094	-.0073956	.0939097
agesq	-.0001786	.0001592	-1.12	0.262	-.0004907	.0001335
highscl	(dropped)					
college	(dropped)					
_Irace_2	(dropped)					
_Irace_3	(dropped)					
_Irace_4	(dropped)					
_Irace_5	(dropped)					
_Ilatino_1	(dropped)					
sex	(dropped)					
PT	-.0933783	.0166392	-5.61	0.000	-.1260003	-.0607562
_Iyear_1984	.0307532	.0276101	1.11	0.265	-.0233777	.0848842
_Iyear_1985	.0412528	.0505716	0.82	0.415	-.0578955	.1404011
_Iyear_1986	.0423164	.0767052	0.55	0.581	-.1080681	.192701
_Iyear_1987	.0725464	.0956615	0.76	0.448	-.1150029	.2600957
_Iyear_1988	.1140607	.1151872	0.99	0.322	-.1117697	.3398912
_Iyear_1989	.1563454	.1349233	1.16	0.247	-.1081787	.4208695
_Iyear_1990	.1938276	.1549847	1.25	0.211	-.1100279	.4976831
_Iyear_1991	.2349195	.1751992	1.34	0.180	-.1085676	.5784065
_Iyear_1992	.259658	.1961448	1.32	0.186	-.1248939	.6442098
_Iyear_1993	.2672184	.2163628	1.24	0.217	-.1569721	.6914088
_Iyear_1994	.2848428	.2381395	1.20	0.232	-.1820418	.7517274
_Iyear_1995	.2552424	.2618128	0.97	0.330	-.258055	.7685398
_Iyear_1996	.2889613	.283345	1.02	0.308	-.266551	.8444737
_Iyear_1997	.3210205	.3043335	1.05	0.292	-.275641	.9176819
_Iyear_1998	.3729598	.3249353	1.15	0.251	-.2640925	1.010012
_Iyear_1999	.3608023	.3461367	1.04	0.297	-.3178165	1.039421
_Iyear_2000	.3929739	.3671523	1.07	0.285	-.3268471	1.112795
_Istate_12	(dropped)					
_Istate_13	(dropped)					
_Istate_14	(dropped)					
_Istate_15	(dropped)					
_Istate_16	(dropped)					
_Istate_21	(dropped)					
_Istate_22	(dropped)					
_Istate_23	(dropped)					
_Istate_31	(dropped)					
_Istate_32	(dropped)					
_Istate_33	(dropped)					
_Istate_34	(dropped)					
_Istate_35	(dropped)					
_Istate_41	(dropped)					
_Istate_42	(dropped)					
_Istate_43	(dropped)					
_Istate_44	(dropped)					
_Istate_45	(dropped)					
_Istate_46	(dropped)					
_Istate_47	(dropped)					

Regs_April2006_print[1].txt

```

_Istate_51 | (dropped)
_Istate_52 | (dropped)
_Istate_53 | (dropped)
_Istate_54 | (dropped)
_Istate_55 | (dropped)
_Istate_56 | (dropped)
_Istate_57 | (dropped)
_Istate_58 | (dropped)
_Istate_59 | (dropped)
_Istate_61 | (dropped)
_Istate_62 | (dropped)
_Istate_63 | (dropped)
_Istate_64 | (dropped)
_Istate_71 | (dropped)
_Istate_72 | (dropped)
_Istate_73 | (dropped)
_Istate_74 | (dropped)
_Istate_81 | (dropped)
_Istate_82 | (dropped)
_Istate_83 | (dropped)
_Istate_84 | (dropped)
_Istate_85 | (dropped)
_Istate_86 | (dropped)
_Istate_87 | (dropped)
_Istate_88 | (dropped)
_Istate_91 | (dropped)
_Istate_92 | (dropped)
_Istate_93 | (dropped)
_Istate_94 | (dropped)
_Istate_95 | (dropped)
_cons     | 4.750639   .8306916   5.72   0.000   3.122025   6.379252
-----+-----
            id |          F(4560, 4040) =          3.172   0.000          (4561 categories)

```

. outreg out using jan_long.out, append

```

. xi: areg lnwage out union unionout age agesq highscl college i.race i.latin
sex PT i.year i.state if janito
> r==1 [aw=earnwt], a(id)
i.race      _Irace_1-5      (naturally coded; _Irace_1 omitted)
i.latin     _Ilatino_0-1    (naturally coded; _Ilatino_0 omitted)
i.year      _Iyear_1983-2000 (naturally coded; _Iyear_1983 omitted)
i.state     _Istate_11-95   (naturally coded; _Istate_11 omitted)

```

```

Number of obs = 8623
F( 23, 4039) = 9.65
Prob > F      = 0.0000
R-squared     = 0.8690
Adj R-squared = 0.7204
Root MSE     = .20207

```

```

-----+-----
lnwage |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
      out |   -.0684746   .0207874    -3.29   0.001   -.1092294   -.0277198
      union |    .0445107   .0162112     2.75   0.006    .0127277    .0762937
unionout |   -.0261365   .0383736    -0.68   0.496   -.1013699    .0490968
      age |    .0430704   .0258391     1.67   0.096   -.0075885    .0937292
      agesq |   -.0001792   .0001592    -1.13   0.260   -.0004913    .0001329
highscl | (dropped)
college | (dropped)
_Irace_2 | (dropped)
_Irace_3 | (dropped)
_Irace_4 | (dropped)
_Irace_5 | (dropped)
_Ilatino_1 | (dropped)
sex | (dropped)

```

Regs_April2006_print[1].txt

PT	-.0931221	.0166446	-5.59	0.000	-.1257546	-.0604895
_Iyear_1984	.0311676	.0276186	1.13	0.259	-.0229802	.0853153
_Iyear_1985	.0416114	.0505777	0.82	0.411	-.0575489	.1407716
_Iyear_1986	.0424713	.0767107	0.55	0.580	-.1079239	.1928665
_Iyear_1987	.0728704	.095669	0.76	0.446	-.1146937	.2604345
_Iyear_1988	.1144009	.1151959	0.99	0.321	-.1114466	.3402485
_Iyear_1989	.1569253	.134935	1.16	0.245	-.1076217	.4214722
_Iyear_1990	.1945251	.1549984	1.26	0.210	-.1093572	.4984074
_Iyear_1991	.2352916	.1752117	1.34	0.179	-.1082199	.5788031
_Iyear_1992	.2600246	.1961585	1.33	0.185	-.1245543	.6446034
_Iyear_1993	.267789	.2163788	1.24	0.216	-.1564328	.6920108
_Iyear_1994	.2855373	.2381574	1.20	0.231	-.1813826	.7524572
_Iyear_1995	.2567122	.2618391	0.98	0.327	-.2566368	.7700611
_Iyear_1996	.2910515	.2833804	1.03	0.304	-.2645303	.8466333
_Iyear_1997	.3233078	.3043722	1.06	0.288	-.2734296	.9200452
_Iyear_1998	.3756595	.324981	1.16	0.248	-.2614825	1.012802
_Iyear_1999	.3637234	.3461862	1.05	0.293	-.3149925	1.042439
_Iyear_2000	.3960956	.3672053	1.08	0.281	-.3238293	1.116021
_Istate_12	(dropped)					
_Istate_13	(dropped)					
_Istate_14	(dropped)					
_Istate_15	(dropped)					
_Istate_16	(dropped)					
_Istate_21	(dropped)					
_Istate_22	(dropped)					
_Istate_23	(dropped)					
_Istate_31	(dropped)					
_Istate_32	(dropped)					
_Istate_33	(dropped)					
_Istate_34	(dropped)					
_Istate_35	(dropped)					
_Istate_41	(dropped)					
_Istate_42	(dropped)					
_Istate_43	(dropped)					
_Istate_44	(dropped)					
_Istate_45	(dropped)					
_Istate_46	(dropped)					
_Istate_47	(dropped)					
_Istate_51	(dropped)					
_Istate_52	(dropped)					
_Istate_53	(dropped)					
_Istate_54	(dropped)					
_Istate_55	(dropped)					
_Istate_56	(dropped)					
_Istate_57	(dropped)					
_Istate_58	(dropped)					
_Istate_59	(dropped)					
_Istate_61	(dropped)					
_Istate_62	(dropped)					
_Istate_63	(dropped)					
_Istate_64	(dropped)					
_Istate_71	(dropped)					
_Istate_72	(dropped)					
_Istate_73	(dropped)					
_Istate_74	(dropped)					
_Istate_81	(dropped)					
_Istate_82	(dropped)					
_Istate_83	(dropped)					
_Istate_84	(dropped)					
_Istate_85	(dropped)					
_Istate_86	(dropped)					
_Istate_87	(dropped)					
_Istate_88	(dropped)					
_Istate_91	(dropped)					
_Istate_92	(dropped)					
_Istate_93	(dropped)					
_Istate_94	(dropped)					
_Istate_95	(dropped)					

_cons	4.758381	.8308245	5.73	0.000	3.129506	6.387255
id	F(4560, 4039) =		3.172	0.000	(4561 categories)	

. outreg out unionout using jan_long.out, append

```
. xi: areg lnwage i.switcher*out i.switcher*union i.switcher*unionout age agesq
highschl college i.race i.latino
> sex PT i.year i.state if janitor==1 [aw=earnwt], a(id)
i.switcher      _Iswitcher_0-2      (naturally coded; _Iswitcher_0 omitted)
i.switcher*out  _Iswixout_#          (coded as above)
i.switc~r*union  _IswiXunion_#        (coded as above)
i.swit~r*unio~t  _IswiXuniona#       (coded as above)
i.race          _Irace_1-5        (naturally coded; _Irace_1 omitted)
i.latino        _Ilatino_0-1      (naturally coded; _Ilatino_0 omitted)
i.year          _Iyear_1983-2000  (naturally coded; _Iyear_1983 omitted)
i.state         _Istate_11-95     (naturally coded; _Istate_11 omitted)
```

Number of obs = 8623
F(28, 4034) = 8.23
Prob > F = 0.0000
R-squared = 0.8693
Adj R-squared = 0.7207
Root MSE = .20199

lnwage	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
_Iswitcher_1	(dropped)					
_Iswitcher_2	(dropped)					
out	-.0996774	.0311301	-3.20	0.001	-.1607096	-.0386452
_Iswixout_1	.0606104	.0449463	1.35	0.178	-.0275092	.14873
_Iswixout_2	(dropped)					
_Iswitcher_1	(dropped)					
_Iswitcher_2	(dropped)					
union	.0412735	.0167514	2.46	0.014	.0084315	.0741155
_IswiXuni~_1	.0569495	.1051933	0.54	0.588	-.1492875	.2631864
_IswiXuni~_2	.1605521	.1088518	1.47	0.140	-.0528576	.3739618
_Iswitcher_1	(dropped)					
_Iswitcher_2	(dropped)					
unionout	-.0563845	.0505209	-1.12	0.264	-.1554333	.0426643
_IswiXuni~a1	-.0377873	.0961555	-0.39	0.694	-.2263052	.1507305
_IswiXuni~a2	.1398919	.1138177	1.23	0.219	-.0832536	.3630374
age	.0448126	.0258742	1.73	0.083	-.005915	.0955402
agesq	-.0001955	.0001594	-1.23	0.220	-.000508	.0001171
highschl	(dropped)					
college	(dropped)					
_Irace_2	(dropped)					
_Irace_3	(dropped)					
_Irace_4	(dropped)					
_Irace_5	(dropped)					
_Ilatino_1	(dropped)					
sex	(dropped)					
PT	-.0929358	.0166592	-5.58	0.000	-.1255971	-.0602746
_Iyear_1984	.030574	.0276193	1.11	0.268	-.023575	.0847231
_Iyear_1985	.0407511	.0505846	0.81	0.421	-.0584227	.1399248
_Iyear_1986	.040727	.0767168	0.53	0.596	-.1096803	.1911343
_Iyear_1987	.0712953	.0956964	0.75	0.456	-.1163225	.2589131
_Iyear_1988	.1146649	.1152516	0.99	0.320	-.111292	.3406217
_Iyear_1989	.1571719	.1350004	1.16	0.244	-.1075034	.4218473
_Iyear_1990	.1958088	.1550715	1.26	0.207	-.1082169	.4998345
_Iyear_1991	.23704	.1752806	1.35	0.176	-.1066067	.5806868
_Iyear_1992	.2618397	.1962409	1.33	0.182	-.1229008	.6465802
_Iyear_1993	.2708118	.2164668	1.25	0.211	-.1535825	.6952062
_Iyear_1994	.2886808	.2382361	1.21	0.226	-.1783935	.7557551
_Iyear_1995	.2629647	.2619464	1.00	0.315	-.2505948	.7765242
_Iyear_1996	.2996977	.2835013	1.06	0.291	-.2561214	.8555169

	Regs_April2006_print[1].txt					
_Iyear_1997	.3324716	.3044873	1.09	0.275	-.2644916	.9294349
_Iyear_1998	.3858925	.3251024	1.19	0.235	-.2514878	1.023273
_Iyear_1999	.3759708	.3463175	1.09	0.278	-.3030028	1.054944
_Iyear_2000	.4095865	.3673456	1.11	0.265	-.3106138	1.129787
_Istate_12	(dropped)					
_Istate_13	(dropped)					
_Istate_14	(dropped)					
_Istate_15	(dropped)					
_Istate_16	(dropped)					
_Istate_21	(dropped)					
_Istate_22	(dropped)					
_Istate_23	(dropped)					
_Istate_31	(dropped)					
_Istate_32	(dropped)					
_Istate_33	(dropped)					
_Istate_34	(dropped)					
_Istate_35	(dropped)					
_Istate_41	(dropped)					
_Istate_42	(dropped)					
_Istate_43	(dropped)					
_Istate_44	(dropped)					
_Istate_45	(dropped)					
_Istate_46	(dropped)					
_Istate_47	(dropped)					
_Istate_51	(dropped)					
_Istate_52	(dropped)					
_Istate_53	(dropped)					
_Istate_54	(dropped)					
_Istate_55	(dropped)					
_Istate_56	(dropped)					
_Istate_57	(dropped)					
_Istate_58	(dropped)					
_Istate_59	(dropped)					
_Istate_61	(dropped)					
_Istate_62	(dropped)					
_Istate_63	(dropped)					
_Istate_64	(dropped)					
_Istate_71	(dropped)					
_Istate_72	(dropped)					
_Istate_73	(dropped)					
_Istate_74	(dropped)					
_Istate_81	(dropped)					
_Istate_82	(dropped)					
_Istate_83	(dropped)					
_Istate_84	(dropped)					
_Istate_85	(dropped)					
_Istate_86	(dropped)					
_Istate_87	(dropped)					
_Istate_88	(dropped)					
_Istate_91	(dropped)					
_Istate_92	(dropped)					
_Istate_93	(dropped)					
_Istate_94	(dropped)					
_Istate_95	(dropped)					
_cons	4.717335	.8318926	5.67	0.000	3.086366	6.348304

id | F(4560, 4034) = 3.171 0.000 (4561 categories)

```

.
.
. type jan_long.out
      (1)      (2)      (3)
out      lnwage lnwage lnwage
      -0.085 -0.072 -0.068
      (9.19)**      (3.61)**      (3.29)**
unionout
Constant      5.596      4.751      4.758

```

(106.45)** (5.72)** (5.73)**
 Observations 8623 8623 8623
 R-squared 0.40 0.87 0.87
 Absolute value of t statistics in parentheses
 * significant at 5%; ** significant at 1%

```
. xi: reg lnwage out union age agesq highschl college i.race i.latin0 sex PT
i.year i.state if guards==1 [aw=ea
> rnwt]
i.race          _Irace_1-5      (naturally coded; _Irace_1 omitted)
i.latin0        _Ilatin0_0-1    (naturally coded; _Ilatin0_0 omitted)
i.year          _Iyear_1983-2000 (naturally coded; _Iyear_1983 omitted)
i.state         _Istate_11-95    (naturally coded; _Istate_11 omitted)
(sum of wgt is 2.5432e+07)
```

Source	SS	df	MS	Number of obs =	3389
Model	249.033391	80	3.11291739	F(80, 3308) =	29.57
Residual	348.270345	3308	.105281241	Prob > F =	0.0000
-----				R-squared =	0.4169
Total	597.303736	3388	.176299804	Adj R-squared =	0.4028
-----				Root MSE =	.32447

lnwage	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
out	-.2058762	.0116564	-17.66	0.000	-.2287307 -.1830217
union	.2417414	.0184038	13.14	0.000	.2056573 .2778254
age	.0323035	.0023614	13.68	0.000	.0276735 .0369335
agesq	-.0003663	.0000257	-14.25	0.000	-.0004167 -.0003159
highschl	.0851233	.0162345	5.24	0.000	.0532926 .116954
college	.0532924	.0130606	4.08	0.000	.0276847 .0789
_Irace_2	-.0724445	.0154057	-4.70	0.000	-.1026503 -.0422388
_Irace_3	-.0132879	.0538116	-0.25	0.805	-.1187953 .0922195
_Irace_4	-.0643406	.0467125	-1.38	0.168	-.1559289 .0272476
_Irace_5	-.0009937	.1878781	-0.01	0.996	-.3693628 .3673754
_Ilatin0_1	-.0545211	.0234712	-2.32	0.020	-.1005407 -.0085016
sex	.0487007	.017597	2.77	0.006	.0141987 .0832027
PT	-.1202949	.0182147	-6.60	0.000	-.1560082 -.0845817
_Iyear_1984	.0789236	.0398308	1.98	0.048	.0008281 .157019
_Iyear_1985	.0407863	.0475313	0.86	0.391	-.0524075 .1339801
_Iyear_1986	.0984263	.0415063	2.37	0.018	.0170458 .1798069
_Iyear_1987	.1526352	.0384463	3.97	0.000	.0772542 .2280162
_Iyear_1988	.1817672	.0386109	4.71	0.000	.1060636 .2574708
_Iyear_1989	.2527297	.0384776	6.57	0.000	.1772873 .328172
_Iyear_1990	.2621069	.0382936	6.84	0.000	.1870254 .3371884
_Iyear_1991	.332911	.0378022	8.81	0.000	.258793 .407029
_Iyear_1992	.3775318	.0380743	9.92	0.000	.3028802 .4521835
_Iyear_1993	.4268571	.038832	10.99	0.000	.3507199 .5029943
_Iyear_1994	.4624513	.043399	10.66	0.000	.3773596 .5475429
_Iyear_1995	.4427554	.0485285	9.12	0.000	.3476065 .5379044
_Iyear_1996	.4629158	.0405727	11.41	0.000	.3833657 .5424659
_Iyear_1997	.4862832	.0380304	12.79	0.000	.4117177 .5608487
_Iyear_1998	.5990971	.0386865	15.49	0.000	.5232452 .6749489
_Iyear_1999	.6467994	.0386458	16.74	0.000	.5710273 .7225715
_Iyear_2000	.6430871	.0437212	14.71	0.000	.5573637 .7288105
_Istate_12	.1453631	.1299637	1.12	0.263	-.1094542 .4001804
_Istate_13	.1456119	.2941405	0.50	0.621	-.4311039 .7223277
_Istate_14	.1414779	.0964359	1.47	0.142	-.0476023 .330558
_Istate_15	.0786389	.1150508	0.68	0.494	-.1469391 .3042168
_Istate_16	.2026739	.1011271	2.00	0.045	.0043958 .4009519
_Istate_21	.1073502	.0931126	1.15	0.249	-.0752138 .2899143
_Istate_22	.1290493	.0940675	1.37	0.170	-.0553871 .3134857
_Istate_23	-.0248637	.0925969	-0.27	0.788	-.2064166 .1566893
_Istate_31	.0235319	.0946249	0.25	0.804	-.1619974 .2090612
_Istate_32	.0218413	.1019364	0.21	0.830	-.1780235 .2217061
_Istate_33	.1077063	.0942554	1.14	0.253	-.0770984 .292511
_Istate_34	-.0089268	.0964626	-0.09	0.926	-.1980592 .1802057

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_Istate_35	-.1059584	.1009551	-1.05	0.294	-.3038993	.0919824
_Istate_41	.0430419	.1056	0.41	0.684	-.164006	.2500899
_Istate_42	.0041561	.1085617	0.04	0.969	-.2086988	.217011
_Istate_43	-.02464	.0969067	-0.25	0.799	-.2146432	.1653632
_Istate_44	.1135747	.2190468	0.52	0.604	-.3159062	.5430557
_Istate_45	-.177566	.149358	-1.19	0.235	-.4704094	.1152774
_Istate_46	-.2809409	.1297519	-2.17	0.030	-.5353431	-.0265388
_Istate_47	.1959814	.1237669	1.58	0.113	-.046686	.4386488
_Istate_51	.064616	.1251045	0.52	0.606	-.180674	.309906
_Istate_52	.0701123	.0983402	0.71	0.476	-.1227015	.2629261
_Istate_53	.1569854	.1150816	1.36	0.173	-.068653	.3826237
_Istate_54	.0615155	.0978093	0.63	0.529	-.1302573	.2532883
_Istate_55	-.2317784	.1128007	-2.05	0.040	-.4529445	-.0106122
_Istate_56	-.0264003	.0991481	-0.27	0.790	-.2207982	.1679976
_Istate_57	.0656677	.0982221	0.67	0.504	-.1269145	.25825
_Istate_58	.0126424	.1012375	0.12	0.901	-.1858522	.2111369
_Istate_59	-.0398315	.0928349	-0.43	0.668	-.2218513	.1421882
_Istate_61	-.0971768	.1005517	-0.97	0.334	-.2943267	.099973
_Istate_62	-.0966929	.0994536	-0.97	0.331	-.2916898	.098304
_Istate_63	-.1701764	.101589	-1.68	0.094	-.3693601	.0290073
_Istate_64	-.073089	.107563	-0.68	0.497	-.2839857	.1378078
_Istate_71	-.1281433	.1033145	-1.24	0.215	-.3307102	.0744236
_Istate_72	-.0130915	.0978012	-0.13	0.894	-.2048485	.1786656
_Istate_73	-.1299692	.1073104	-1.21	0.226	-.3403706	.0804323
_Istate_74	-.0033914	.0932929	-0.04	0.971	-.186309	.1795261
_Istate_81	-.2207645	.1683442	-1.31	0.190	-.5508338	.1093048
_Istate_82	.0599783	.1515924	0.40	0.692	-.2372461	.3572028
_Istate_83	.0043624	.192979	0.02	0.982	-.374008	.3827327
_Istate_84	.2532915	.106357	2.38	0.017	.0447593	.4618238
_Istate_85	.0093958	.1173742	0.08	0.936	-.2207376	.2395291
_Istate_86	.0578301	.1028959	0.56	0.574	-.1439161	.2595763
_Istate_87	.0215637	.1267413	0.17	0.865	-.2269356	.270063
_Istate_88	.1097768	.1056375	1.04	0.299	-.0973447	.3168983
_Istate_91	.0554211	.1061048	0.52	0.601	-.1526166	.2634588
_Istate_92	.0130358	.100285	0.13	0.897	-.1835912	.2096628
_Istate_93	.0704944	.0917277	0.77	0.442	-.1093544	.2503432
_Istate_94	.2944834	.2511568	1.17	0.241	-.197955	.7869219
_Istate_95	.0606089	.1168619	0.52	0.604	-.1685201	.2897379
_cons	5.522734	.1113207	49.61	0.000	5.304469	5.740998

. outreg out using grd_long.out, replace

```
. xi: areg lnwage out union age agesq highscl college i.race i.latino sex PT
i.year i.state if guards==1 [aw=e
> arnwt], a(id)
i.race      _Irace_1-5      (naturally coded; _Irace_1 omitted)
i.latino    _Ilatino_0-1    (naturally coded; _Ilatino_0 omitted)
i.year      _Iyear_1983-2000 (naturally coded; _Iyear_1983 omitted)
i.state     _Istate_11-95  (naturally coded; _Istate_11 omitted)
```

```
Number of obs = 3389
F( 22, 1562) = 4.29
Prob > F = 0.0000
R-squared = 0.8714
Adj R-squared = 0.7211
Root MSE = .22176
```

lnwage	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
out	-.0605739	.0256303	-2.36	0.018	-.1108474	-.0103005
union	.0142096	.0274013	0.52	0.604	-.0395376	.0679567
age	.0619824	.0399624	1.55	0.121	-.0164031	.1403679
agesq	-.0004184	.0002479	-1.69	0.092	-.0009046	.0000677
highscl	(dropped)					
college	(dropped)					

_Irace_2	(dropped)					
_Irace_3	(dropped)					
_Irace_4	(dropped)					
_Irace_5	(dropped)					
_Ilatino_1	(dropped)					
sex	(dropped)					
PT	-.0259018	.0293334	-0.88	0.377	-.0834389	.0316353
_Iyear_1984	.0255681	.0449752	0.57	0.570	-.0626501	.1137862
_Iyear_1985	.0305882	.0836748	0.37	0.715	-.1335386	.194715
_Iyear_1986	.0128633	.1263716	0.10	0.919	-.2350126	.2607393
_Iyear_1987	.0422435	.1552628	0.27	0.786	-.2623021	.346789
_Iyear_1988	.0483009	.1863454	0.26	0.796	-.3172126	.4138144
_Iyear_1989	.136989	.2170759	0.63	0.528	-.2888019	.5627799
_Iyear_1990	.2158874	.2488107	0.87	0.386	-.2721507	.7039256
_Iyear_1991	.2911648	.281611	1.03	0.301	-.2612106	.8435402
_Iyear_1992	.297771	.3128172	0.95	0.341	-.3158149	.9113569
_Iyear_1993	.2845648	.3443911	0.83	0.409	-.3909527	.9600823
_Iyear_1994	.2511938	.3769983	0.67	0.505	-.4882822	.9906699
_Iyear_1995	.1564156	.4143642	0.38	0.706	-.656353	.9691842
_Iyear_1996	.1772568	.448643	0.40	0.693	-.7027492	1.057263
_Iyear_1997	.2146298	.4811501	0.45	0.656	-.7291383	1.158398
_Iyear_1998	.3067884	.5123369	0.60	0.549	-.6981522	1.311729
_Iyear_1999	.3897795	.543023	0.72	0.473	-.6753513	1.45491
_Iyear_2000	.3945941	.5742331	0.69	0.492	-.7317549	1.520943
_Istate_12	(dropped)					
_Istate_13	(dropped)					
_Istate_14	(dropped)					
_Istate_15	(dropped)					
_Istate_16	(dropped)					
_Istate_21	(dropped)					
_Istate_22	(dropped)					
_Istate_23	(dropped)					
_Istate_31	(dropped)					
_Istate_32	(dropped)					
_Istate_33	(dropped)					
_Istate_34	(dropped)					
_Istate_35	(dropped)					
_Istate_41	(dropped)					
_Istate_42	(dropped)					
_Istate_43	(dropped)					
_Istate_44	(dropped)					
_Istate_45	(dropped)					
_Istate_46	(dropped)					
_Istate_47	(dropped)					
_Istate_51	(dropped)					
_Istate_52	(dropped)					
_Istate_53	(dropped)					
_Istate_54	(dropped)					
_Istate_55	(dropped)					
_Istate_56	(dropped)					
_Istate_57	(dropped)					
_Istate_58	(dropped)					
_Istate_59	(dropped)					
_Istate_61	(dropped)					
_Istate_62	(dropped)					
_Istate_63	(dropped)					
_Istate_64	(dropped)					
_Istate_71	(dropped)					
_Istate_72	(dropped)					
_Istate_73	(dropped)					
_Istate_74	(dropped)					
_Istate_81	(dropped)					
_Istate_82	(dropped)					
_Istate_83	(dropped)					
_Istate_84	(dropped)					
_Istate_85	(dropped)					
_Istate_86	(dropped)					
_Istate_87	(dropped)					

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_Istate_88	(dropped)					
_Istate_91	(dropped)					
_Istate_92	(dropped)					
_Istate_93	(dropped)					
_Istate_94	(dropped)					
_Istate_95	(dropped)					
_cons	4.540887	1.284408	3.54	0.000	2.021542	7.060232

id	F(1804, 1562) =		3.060	0.000	(1805 categories)	

. outreg out using grd_long.out, append

```
. xi: areg lnwage out union unionout age agesq highschl college i.race i.latinos
sex PT i.year i.state if guards
> ==1 [aw=earnwt], a(id)
i.race          _Irace_1-5      (naturally coded; _Irace_1 omitted)
i.latinos      _Ilatino_0-1    (naturally coded; _Ilatino_0 omitted)
i.year         _Iyear_1983-2000 (naturally coded; _Iyear_1983 omitted)
i.state        _Istate_11-95   (naturally coded; _Istate_11 omitted)
```

```
Number of obs = 3389
F( 23, 1561) = 4.21
Prob > F      = 0.0000
R-squared     = 0.8716
Adj R-squared = 0.7213
Root MSE     = .22165
```

lnwage	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
out	-.0672894	.0259697	-2.59	0.010	-.1182286	-.0163503
union	-.0141198	.0327545	-0.43	0.666	-.0783672	.0501277
unionout	.0846563	.0536846	1.58	0.115	-.0206453	.1899579
age	.062799	.0399467	1.57	0.116	-.0155559	.1411538
agesq	-.0004346	.0002479	-1.75	0.080	-.0009209	.0000518
highschl	(dropped)					
college	(dropped)					
_Irace_2	(dropped)					
_Irace_3	(dropped)					
_Irace_4	(dropped)					
_Irace_5	(dropped)					
_Ilatino_1	(dropped)					
sex	(dropped)					
PT	-.0251684	.0293232	-0.86	0.391	-.0826854	.0323486
_Iyear_1984	.0257811	.044954	0.57	0.566	-.0623956	.1139577
_Iyear_1985	.0300427	.0836357	0.36	0.719	-.1340075	.194093
_Iyear_1986	.014372	.1263152	0.11	0.909	-.2333933	.2621373
_Iyear_1987	.0435884	.1551914	0.28	0.779	-.2608171	.3479938
_Iyear_1988	.050372	.1862614	0.27	0.787	-.314977	.4157209
_Iyear_1989	.1380861	.2169738	0.64	0.525	-.2875047	.5636769
_Iyear_1990	.2198091	.2487048	0.88	0.377	-.2680216	.7076398
_Iyear_1991	.2953871	.2814898	1.05	0.294	-.2567509	.8475251
_Iyear_1992	.3041996	.312695	0.97	0.331	-.3091469	.9175461
_Iyear_1993	.2901646	.3442456	0.84	0.399	-.3850679	.9653971
_Iyear_1994	.2574634	.37684	0.68	0.495	-.4817025	.9966293
_Iyear_1995	.1616987	.4141807	0.39	0.696	-.6507103	.9741078
_Iyear_1996	.1847445	.4484548	0.41	0.680	-.6948928	1.064382
_Iyear_1997	.2216473	.4809419	0.46	0.645	-.7217129	1.165007
_Iyear_1998	.3157774	.512125	0.62	0.538	-.688748	1.320303
_Iyear_1999	.399365	.5427988	0.74	0.462	-.6653265	1.464057
_Iyear_2000	.4043551	.5739934	0.70	0.481	-.7215242	1.530234
_Istate_12	(dropped)					
_Istate_13	(dropped)					
_Istate_14	(dropped)					
_Istate_15	(dropped)					
_Istate_16	(dropped)					
_Istate_21	(dropped)					

_Istate_22	(dropped)					
_Istate_23	(dropped)					
_Istate_31	(dropped)					
_Istate_32	(dropped)					
_Istate_33	(dropped)					
_Istate_34	(dropped)					
_Istate_35	(dropped)					
_Istate_41	(dropped)					
_Istate_42	(dropped)					
_Istate_43	(dropped)					
_Istate_44	(dropped)					
_Istate_45	(dropped)					
_Istate_46	(dropped)					
_Istate_47	(dropped)					
_Istate_51	(dropped)					
_Istate_52	(dropped)					
_Istate_53	(dropped)					
_Istate_54	(dropped)					
_Istate_55	(dropped)					
_Istate_56	(dropped)					
_Istate_57	(dropped)					
_Istate_58	(dropped)					
_Istate_59	(dropped)					
_Istate_61	(dropped)					
_Istate_62	(dropped)					
_Istate_63	(dropped)					
_Istate_64	(dropped)					
_Istate_71	(dropped)					
_Istate_72	(dropped)					
_Istate_73	(dropped)					
_Istate_74	(dropped)					
_Istate_81	(dropped)					
_Istate_82	(dropped)					
_Istate_83	(dropped)					
_Istate_84	(dropped)					
_Istate_85	(dropped)					
_Istate_86	(dropped)					
_Istate_87	(dropped)					
_Istate_88	(dropped)					
_Istate_91	(dropped)					
_Istate_92	(dropped)					
_Istate_93	(dropped)					
_Istate_94	(dropped)					
_Istate_95	(dropped)					
_cons		4.539822	1.283797	3.54	0.000	2.021673 7.057971

id		F(1804, 1561) =	3.060	0.000		(1805 categories)

. outreg out unionout using grd_long.out, append

```
. xi: areg lnwage i.switcher*out i.switcher*union i.switcher*unionout age agesq
highschl college i.race i.latin0
> sex PT i.year i.state if guards==1 & switcher!=1 [aw=earnwt], a(id)
i.switcher      _Iswitcher_0-2      (naturally coded; _Iswitcher_0 omitted)
i.switcher*out  _Iswixout_#      (coded as above)
i.switc~r*union  _Iswixunion_#    (coded as above)
i.swit~r*unio~t  _Iswixuniona#    (coded as above)
i.race          _Irace_1-5      (naturally coded; _Irace_1 omitted)
i.latin0        _Ilatin0_0-1    (naturally coded; _Ilatin0_0 omitted)
i.year          _Iyear_1983-2000 (naturally coded; _Iyear_1983 omitted)
i.state         _Istate_11-95    (naturally coded; _Istate_11 omitted)
```

Number of obs = 3217
F(25, 1485) = 3.54
Prob > F = 0.0000
R-squared = 0.8760
Adj R-squared = 0.7314

lnwage	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
_Iswitcher_1	(dropped)					
_Iswitcher_2	(dropped)					
out	(dropped)					
_IswiXout_1	(dropped)					
_IswiXout_2	.0274435	.0414819	0.66	0.508	-.0539258	.1088128
_Iswitcher_1	(dropped)					
_Iswitcher_2	(dropped)					
union	-.036918	.0357915	-1.03	0.302	-.1071253	.0332892
_IswiXuni~_1	(dropped)					
_IswiXuni~_2	.2166131	.1184582	1.83	0.068	-.01575	.4489763
_Iswitcher_1	(dropped)					
_Iswitcher_2	(dropped)					
unionout	.1355105	.0599415	2.26	0.024	.0179314	.2530895
_IswiXuni~a1	(dropped)					
_IswiXuni~a2	-.267448	.1634703	-1.64	0.102	-.5881052	.0532093
age	.0562925	.0402203	1.40	0.162	-.0226022	.1351872
agesq	-.0003256	.0002512	-1.30	0.195	-.0008182	.0001671
highsch1	(dropped)					
college	(dropped)					
_Irace_2	(dropped)					
_Irace_3	(dropped)					
_Irace_4	(dropped)					
_Irace_5	(dropped)					
_Ilatino_1	(dropped)					
sex	(dropped)					
PT	-.0176368	.0300391	-0.59	0.557	-.0765603	.0412867
_Iyear_1984	-.0110997	.0455627	-0.24	0.808	-.1004737	.0782744
_Iyear_1985	-.0225554	.0852263	-0.26	0.791	-.1897321	.1446213
_Iyear_1986	-.0404594	.1276411	-0.32	0.751	-.2908354	.2099166
_Iyear_1987	-.0210246	.1565815	-0.13	0.893	-.3281691	.2861198
_Iyear_1988	-.0344717	.187929	-0.18	0.854	-.4031061	.3341627
_Iyear_1989	.0513494	.218653	0.23	0.814	-.3775523	.480251
_Iyear_1990	.1311535	.251012	0.52	0.601	-.3612222	.6235293
_Iyear_1991	.2008637	.2839406	0.71	0.479	-.3561036	.757831
_Iyear_1992	.207386	.3152247	0.66	0.511	-.410947	.825719
_Iyear_1993	.1896732	.3468851	0.55	0.585	-.4907636	.87011
_Iyear_1994	.1453882	.3795543	0.38	0.702	-.5991314	.8899079
_Iyear_1995	.029289	.4173001	0.07	0.944	-.7892713	.8478493
_Iyear_1996	.0493256	.451546	0.11	0.913	-.8364101	.9350613
_Iyear_1997	.077234	.4840973	0.16	0.873	-.8723533	1.026821
_Iyear_1998	.1707024	.5153568	0.33	0.741	-.8402022	1.181607
_Iyear_1999	.2525889	.5461411	0.46	0.644	-.818701	1.323879
_Iyear_2000	.250887	.5773992	0.43	0.664	-.8817178	1.383492
_Istate_12	(dropped)					
_Istate_13	(dropped)					
_Istate_14	(dropped)					
_Istate_15	(dropped)					
_Istate_16	(dropped)					
_Istate_21	(dropped)					
_Istate_22	(dropped)					
_Istate_23	(dropped)					
_Istate_31	(dropped)					
_Istate_32	(dropped)					
_Istate_33	(dropped)					
_Istate_34	(dropped)					
_Istate_35	(dropped)					
_Istate_41	(dropped)					
_Istate_42	(dropped)					
_Istate_43	(dropped)					
_Istate_44	(dropped)					
_Istate_45	(dropped)					
_Istate_46	(dropped)					
_Istate_47	(dropped)					

_Istate_51	(dropped)					
_Istate_52	(dropped)					
_Istate_53	(dropped)					
_Istate_54	(dropped)					
_Istate_55	(dropped)					
_Istate_56	(dropped)					
_Istate_57	(dropped)					
_Istate_58	(dropped)					
_Istate_59	(dropped)					
_Istate_61	(dropped)					
_Istate_62	(dropped)					
_Istate_63	(dropped)					
_Istate_64	(dropped)					
_Istate_71	(dropped)					
_Istate_72	(dropped)					
_Istate_73	(dropped)					
_Istate_74	(dropped)					
_Istate_81	(dropped)					
_Istate_82	(dropped)					
_Istate_83	(dropped)					
_Istate_84	(dropped)					
_Istate_85	(dropped)					
_Istate_86	(dropped)					
_Istate_87	(dropped)					
_Istate_88	(dropped)					
_Istate_91	(dropped)					
_Istate_92	(dropped)					
_Istate_93	(dropped)					
_Istate_94	(dropped)					
_Istate_95	(dropped)					
_cons	4.645814	1.301158	3.57	0.000	2.093511	7.198117

id	F(1706, 1485) =	3.147	0.000		(1707 categories)	

```

:
:
end of do-file

. do "C:\DOCUME~1\ARINDR~1\LOCALS~1\Temp\STD0g000000.tmp"

:
. type grd_long.out
      (1)      (2)      (3)
out      lnwage lnwage lnwage
      -0.206 -0.061 -0.067
      (17.66)**      (2.36)* (2.59)**
unionout
      (1.58)
Constant      5.523      4.541      4.540
      (49.61)**      (3.54)**      (3.54)**
Observations      3389      3389      3389
R-squared      0.42      0.87      0.87
Absolute value of t statistics in parentheses
* significant at 5%; ** significant at 1%

:
:
end of do-file

```