

```

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--
log type: text
opened on: 19 Oct 2005, 05:38:58

. label define race 1 "black" 2 "Mexican" 3 "Oth Hisp" 4 "All Others" 5 "White"

. label val wife race

. label val husb race

. set linesize 79

. poisson count

```

```

Iteration 0: log likelihood = -80138.505
Iteration 1: log likelihood = -80138.505

```

```

Poisson regression                                Number of obs =          25
                                                  LR chi2(0)      =          0.00
                                                  Prob > chi2     =          .
Log likelihood = -80138.505                    Pseudo R2      =          0.0000

```

```

-----
count |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-----+-----
_cons |   7.436688   .0048548   1531.81   0.000   7.427173   7.446203
-----

```

```

. poisgof

      Goodness-of-fit chi2 = 160099.2
      Prob > chi2(24)     =    0.0000

```

```

. predict P_Const
(option n assumed; predicted number of events)

```

```

. tabulate husb wife [fweight=count], row col

```

```

+-----+
| Key                                     |
+-----+
| frequency                               |
| row percentage                          |
| column percentage                        |
+-----+

```

husb	wife					Total
	black	Mexican	Oth Hisp	All Other	White	
black	4,074	63	32	42	215	4,426
	92.05	1.42	0.72	0.95	4.86	100.00
	96.15	1.17	3.98	2.52	0.71	10.43
Mexican	25	3,947	143	95	1,009	5,219
	0.48	75.63	2.74	1.82	19.33	100.00
	0.59	73.42	17.76	5.69	3.33	12.30

Oth Hisp	16	132	239	18	304	709
	2.26	18.62	33.71	2.54	42.88	100.00
	0.38	2.46	29.69	1.08	1.00	1.67
All Others	19	78	18	1,022	360	1,497
	1.27	5.21	1.20	68.27	24.05	100.00
	0.45	1.45	2.24	61.23	1.19	3.53
White	103	1,156	373	492	28,453	30,577
	0.34	3.78	1.22	1.61	93.05	100.00
	2.43	21.50	46.34	29.48	93.78	72.07
Total	4,237	5,376	805	1,669	30,341	42,428
	9.99	12.67	1.90	3.93	71.51	100.00
	100.00	100.00	100.00	100.00	100.00	100.00

```
. tabulate husb wife [fweight=count]
```

husb	wife					Total
	black	Mexican	Oth Hisp	All Other	White	
black	4,074	63	32	42	215	4,426
Mexican	25	3,947	143	95	1,009	5,219
Oth Hisp	16	132	239	18	304	709
All Others	19	78	18	1,022	360	1,497
White	103	1,156	373	492	28,453	30,577
Total	4,237	5,376	805	1,669	30,341	42,428

```
. *So total count is 42,428
```

```
. gen ID_const=50*(abs(( P_Const/42428)-(count/42428)))
```

```
. tabulate husb wife, contents (sum ID_const) row col
option contents() not allowed
r(198);
```

```
. table husb wife, contents(sum ID_const) row col
```

husb	wife					Total
	black	Mexican	Oth Hisp	All Others	White	
black	2.801075	1.925757	1.962289	1.950504	1.74663	10.38625
Mexican	1.970538	2.651409	1.831479	1.888046	.8109267	9.152399
Oth Hisp	1.981145	1.844442	1.718346	1.978788	1.641746	9.164467
All Others	1.977609	1.90808	1.978788	.7956067	1.575752	8.235835
White	1.878618	.6376921	1.560432	1.420194	31.53092	37.02786
Total	10.60898	8.96738	9.051334	8.033138	37.30598	73.96682

```
. desmat: poisson count husb wife
```

```
Poisson regression
```

```

-----
Dependent variable                               count
Optimization:                                   ml
Number of observations:                         25
Initial log likelihood:                         -80138.505
Log likelihood:                                 -22065.255
LR chi square:                                  116146.499
Model degrees of freedom:                       8
Pseudo R-squared:                              0.725
Prob:                                           0.000
-----

```

```

-----
nr Effect                                     Coeff      s.e.
-----
count
  husb
1   Mexican                                 0.165**    0.020
2   Oth Hisp                               -1.831**   0.040
3   All Others                             -1.084**   0.030
4   White                                  1.933**   0.016
  wife
5   Mexican                                 0.238**   0.021
6   Oth Hisp                               -1.661**   0.038
7   All Others                             -0.932**   0.029
8   White                                  1.969**   0.016
9   _cons                                  6.091**   0.021
-----

```

```

* p < .05
** p < .01

```

```

. poisgof

```

```

      Goodness-of-fit chi2 = 43952.7
      Prob > chi2(16)     = 0.0000

```

```

. predict P_indep
(option n assumed; predicted number of events)

```

```

. gen ID_indep=50*(abs(( P_indep/42428)-(count/42428)))

```

```

. table husb wife, contents(sum ID_indep) row col

```

```

-----
      husb |          black   Mexican   Oth Hisp All Others   White   Total
-----+-----
      black | 4.280198   .5866563   .0612519   .1556832   3.476607   8.560397
      Mexican | .5847394   3.872097   .0518269   .1299861   3.209198   7.847848
      Oth Hisp | .0645837   .0496882   .2658008   .0116552   .2392506   .6309784
All Others | .1537845   .1316148   .0122597   1.134996   .8373371   2.269992
      White | 3.477091   3.203515   .2441162   .8376714   7.762392   15.52478
      Total | 8.560396   7.843571   .6352555   2.269992   15.52479   34.834
-----

```

```

. gen byte endogdm=0

```

```

. replace endogdm=1 if husb==wife

```

(5 real changes made)

```
. desmat: poisson count  husb wife endogdm
```

Poisson regression

Dependent variable	count
Optimization:	ml
Number of observations:	25
Initial log likelihood:	-80138.505
Log likelihood:	-1405.264
LR chi square:	157466.482
Model degrees of freedom:	9
Pseudo R-squared:	0.982
Prob:	0.000

nr	Effect	Coeff	s.e.
	count		
	husb		
1	Mexican	-0.026	0.031
2	Oth Hisp	-1.288**	0.048
3	All Others	-0.822**	0.039
4	White	1.026**	0.025
	wife		
5	Mexican	0.258**	0.031
6	Oth Hisp	-0.880**	0.046
7	All Others	-0.388**	0.038
8	White	1.119**	0.026
	endogdm		
9	1	2.850**	0.017
10	_cons	5.271**	0.021

* p < .05

** p < .01

```
. poisgof
```

```
Goodness-of-fit chi2 = 2632.715  
Prob > chi2(15) = 0.0000
```

```
. predict P_m3  
(option n assumed; predicted number of events)
```

```
. gen ID_indep=50*(abs(( P_m3/42428)-(count/42428)))  
ID_indep already defined  
r(110);
```

```
. gen ID_m3=50*(abs(( P_m3/42428)-(count/42428)))
```

```
. table husb wife, contents(sum ID_m3) row col
```

	husb	black	Mexican	Oth Hisp	All Others	White	Total
black		.8347894	.2224885	.0574107	.1061299	.4487603	1.669579

Mexican	.1938934	.3475431	.0758713	.0396263	.5051911	1.162125
Oth Hisp	.0443988	.0737071	.1721712	.0217153	.1645782	.4765707
All Others	.0783678	.0384606	.0205831	.0216725	.115739	.274823
White	.5181295	.5347847	.1742937	.145799	.336747	1.709754
Total	1.669579	1.216984	.5003302	.334943	1.571016	5.292852

. gen endog=0

. replace endog=wife if wife==husb
(5 real changes made)

. desmat: poisson count husb wife endog

Poisson regression

Dependent variable	count
Optimization:	ml
Number of observations:	25
Initial log likelihood:	-80138.505
Log likelihood:	-132.836
LR chi square:	160011.338
Model degrees of freedom:	13
Pseudo R-squared:	0.998
Prob:	0.000

nr	Effect	Coeff	s.e.
	count		
	husb		
1	Mexican	1.485**	0.061
2	Oth Hisp	0.340**	0.071
3	All Others	0.361**	0.070
4	White	2.791**	0.065
	wife		
5	Mexican	2.328**	0.083
6	Oth Hisp	1.262**	0.089
7	All Others	1.397**	0.088
8	White	3.498**	0.087
	endog		
9	1	6.378**	0.099
10	2	2.533**	0.055
11	3	1.940**	0.094
12	4	3.237**	0.073
13	5	2.032**	0.051
14	_cons	1.934**	0.098

* p < .05

** p < .01

. poisgof

Goodness-of-fit chi2 = 87.85888
Prob > chi2(11) = 0.0000

. predict P_m4

(option n assumed; predicted number of events)

```
. gen ID_m4=50*(abs(( P_m4/42428)-(count/42428)))
```

```
. table husb wife, contents(sum ID_m4) row col
```

husb	wife					Total
	black	Mexican	Oth Hisp	All Others	White	
black	0	.009355	.0089059	.0165254	.0160762	.0508625
Mexican	.006549	0	.0412894	.0336744	.001066	.0825789
Oth Hisp	.0073993	.0380863	0	.0251169	.0203687	.0909712
All Others	.0106891	.0280685	.0201316	0	.037511	.0964002
White	.0115394	.0006629	.0300637	.042266	0	.084532
Total	.0361768	.0761727	.1003906	.1175826	.0750219	.4053447

```
. tabulate husb [fweight=count]
```

husb	Freq.	Percent	Cum.
black	4,426	10.43	10.43
Mexican	5,219	12.30	22.73
Oth Hisp	709	1.67	24.40
All Others	1,497	3.53	27.93
White	30,577	72.07	100.00
Total	42,428	100.00	

```
. tabulate husb [fweight=count], nolab
```

husb	Freq.	Percent	Cum.
1	4,426	10.43	10.43
2	5,219	12.30	22.73
3	709	1.67	24.40
4	1,497	3.53	27.93
5	30,577	72.07	100.00
Total	42,428	100.00	

```
. gen BW=0
```

```
. replace BW=1 if (husb==1 & wife==5) | (husb==5 & wife==1)  
(2 real changes made)
```

```
. gen byte MOh=0
```

```
. replace MOh=1 if (husb==2 & wife==3) | (husb==3 & wife==2)  
(2 real changes made)
```

```
. desmat: poisson count husb wife endog BW MOh
```

Poisson regression

```

-----
Dependent variable                               count
Optimization:                                   ml
Number of observations:                         25
Initial log likelihood:                         -80138.505
Log likelihood:                                 -99.227
LR chi square:                                  160078.556
Model degrees of freedom:                       15
Pseudo R-squared:                              0.999
Prob:                                           0.000
-----

```

```

-----
nr Effect                                     Coeff      s.e.
-----
count
  husb
1   Mexican                                0.923**    0.108
2   Oth Hisp                             -0.282*    0.116
3   All Others                            -0.089     0.108
4   White                                  2.672**    0.079
  wife
5   Mexican                                1.752**    0.125
6   Oth Hisp                              0.630**    0.130
7   All Others                             0.922**    0.123
8   White                                  3.372**    0.099
  endog
9   1                                       5.692**    0.165
10  2                                       2.986**    0.083
11  3                                       2.508**    0.120
12  4                                       3.476**    0.085
13  5                                       1.592**    0.080
  BW
14  1                                       -0.633**   0.117
  MOh
15  1                                       0.791**    0.102
16  _cons                                  2.620**    0.165
-----

```

```

* p < .05
** p < .01

```

```

. poisgof

```

```

      Goodness-of-fit chi2 = 20.64177
      Prob > chi2(9)      = 0.0143

```

```

. predict P_m5
(option n assumed; predicted number of events)

```

```

. gen ID_m5=50*(abs(( P_m5/42428)-(count/42428)))

```

```

. table husb wife, contents(sum ID_m5) row col

```

```

-----
      husb |          black   Mexican   Oth Hisp All Others   White   Total
-----+-----
      black |             0   .0190644   .0073044   .0088081   .0029519   .0381288
      Mexican |   .0112725             0   .0003042   .0095654   .0020112   .0231533
-----

```


(1) [count]_x_9 - [count]_x_12 = 0

count	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
(1)	3.141483	.1199352	26.19	0.000	2.906414	3.376552

. table husb wife, contents(sum count sum P_m5) row col

husb	wife						Total
	black	Mexican	Oth Hisp	All Others	White		
black	4074	63	32	42	215	4426	
	4074	79.17728	25.80177	34.52584	212.4951	4426	
Mexican	25	3947	143	95	1009	5219	
	34.56537	3947	143.2581	86.88316	1007.293	5219	
Oth Hisp	16	132	239	18	304	709	
	10.35845	131.7419	239	26.03689	301.8628	709	
All Others	19	78	18	1022	360	1497	
	12.57129	72.4654	23.61455	1022	366.3488	1497	
White	103	1156	373	492	28453	30577	
	105.5049	1145.615	373.3256	499.5541	28453	30577	
Total	4237	5376	805	1669	30341	42428	
	4237	5376	805	1669	30341	42428	

. gen byte BWS=0

. replace BWS=1 if husb==1 & wife==5
(1 real change made)

. desmat: poisson count husb wife endog BW BWS MOh

Poisson regression

```

Dependent variable: count
Optimization: ml
Number of observations: 25
Initial log likelihood: -80138.505
Log likelihood: -99.103
LR chi square: 160078.805
Model degrees of freedom: 16
Pseudo R-squared: 0.999
Prob: 0.000

```

nr	Effect	Coeff	s.e.
	count		
	husb		
1	Mexican	0.941**	0.115

2	Oth Hisp	-0.264*	0.122
3	All Others	-0.070	0.114
4	White	2.691**	0.088
wife			
5	Mexican	1.709**	0.150
6	Oth Hisp	0.588**	0.155
7	All Others	0.879**	0.148
8	White	3.328**	0.131
endog			
9	1	5.668**	0.171
10	2	2.986**	0.083
11	3	2.508**	0.120
12	4	3.476**	0.085
13	5	1.592**	0.080
BW			
14	1	-0.701**	0.179
BWS			
15	1	0.099	0.199
MOh			
16	1	0.791**	0.102
17	_cons	2.645**	0.171

* p < .05

** p < .01

. poisgof

Goodness-of-fit chi2 = 20.39273
 Prob > chi2(8) = 0.0089

. desmat: poisson count husb wife BW

Poisson regression

Dependent variable count
 Optimization: ml
 Number of observations: 25
 Initial log likelihood: -80138.505
 Log likelihood: -13705.976
 LR chi square: 132865.058
 Model degrees of freedom: 9
 Pseudo R-squared: 0.829
 Prob: 0.000

nr	Effect	Coeff	s.e.
count			
husb			
1	Mexican	-0.879**	0.023
2	Oth Hisp	-2.875**	0.042
3	All Others	-2.128**	0.031
4	White	1.112**	0.021
wife			
5	Mexican	-0.794**	0.023
6	Oth Hisp	-2.692**	0.040
7	All Others	-1.963**	0.030
8	White	1.175**	0.021

```

      BW
9      1                -3.925**    0.057
10    _cons             7.850**    0.018

```

```

-----
*   p < .05
**  p < .01

```

```

. display exp(-3.925)
.01974214

```

```

. display exp(-0.633)
.53099642

```

```

. gen m5_pearson=(( P_m5- count)^2)/ P_m5

```

```

. table husb wife, contents (sum m5_pearson) row col

```

```

-----

```

husb	wife					Total
	black	Mexican	Oth Hisp	All Others	White	
black	0	3.305295	1.488971	1.618009	.0295274	6.441803
Mexican	2.647052	0	.000465	.7582946	.0028916	3.408704
Oth Hisp	3.072571	.0005057	0	2.480774	.015132	5.568983
All Others	3.287509	.4227092	1.334903	0	.1100227	5.155144
White	.0594706	.0941313	.000284	.114231	0	.2681168
Total	9.066603	3.822641	2.824623	4.971309	.1575738	20.84275

```

-----

```

```

. table husb wife, contents (sum count sum P_m5) row col

```

```

-----

```

husb	wife					Total
	black	Mexican	Oth Hisp	All Others	White	
black	4074	63	32	42	215	4426
	4074	79.17728	25.80177	34.52584	212.4951	4426
Mexican	25	3947	143	95	1009	5219
	34.56537	3947	143.2581	86.88316	1007.293	5219
Oth Hisp	16	132	239	18	304	709
	10.35845	131.7419	239	26.03689	301.8628	709
All Others	19	78	18	1022	360	1497
	12.57129	72.4654	23.61455	1022	366.3488	1497
White	103	1156	373	492	28453	30577
	105.5049	1145.615	373.3256	499.5541	28453	30577
Total	4237	5376	805	1669	30341	42428
	4237	5376	805	1669	30341	42428

```

-----

```

```

. *it looks like a single gender symmetric black-mexican term might improve the
goodness of fit a bit since the actual values are substantially less than

```

the model 5 predicted values in both cells

```
. gen byte MB=0
```

```
. replace MB=1 if (husb==1 & wife==2) | (husb==2 & wife==1)
(2 real changes made)
```

```
. desmat: poisson count  husb wife endog BW MOh MB
```

Poisson regression

Dependent variable	count
Optimization:	ml
Number of observations:	25
Initial log likelihood:	-80138.505
Log likelihood:	-92.059
LR chi square:	160092.893
Model degrees of freedom:	16
Pseudo R-squared:	0.999
Prob:	0.000

nr	Effect	Coeff	s.e.
	count		
	husb		
1	Mexican	0.658**	0.124
2	Oth Hisp	-0.568**	0.134
3	All Others	-0.374**	0.127
4	White	2.387**	0.103
	wife		
5	Mexican	1.486**	0.139
6	Oth Hisp	0.333*	0.148
7	All Others	0.622**	0.142
8	White	3.081**	0.121
	endog		
9	1	5.128**	0.211
10	2	2.952**	0.083
11	3	2.527**	0.120
12	4	3.497**	0.085
13	5	1.604**	0.080
	BW		
14	1	-0.909**	0.133
	MOh		
15	1	0.784**	0.102
	MB		
16	1	-0.556**	0.147
17	_cons	3.184**	0.210

* p < .05

** p < .01

```
. poisgof
```

```
Goodness-of-fit chi2 = 6.304709
Prob > chi2(8) = 0.6131
```

```
. display 6.304-(8*(ln42428))
ln42428 not found
```

```

r(111);

. display 6.304-(8*(ln(42428)))
-78.94051

. display chi2tail(1, (20.6-6.3))
.00015586

. *Now let's look at a model called the Quasi-Symmetry model, which takes the
maximum number of symmetric off-diagonal interactions, which in this case is 10.

. *Our model 5 had 7 symmetric off diagonal interactions, and our best fitting
model had 8.
. gen byte QS=0

. replace QS= wife-1 if husb==1
(4 real changes made)

. table husb wife, contents(mean QS)

```

husb	black	Mexican	wife Oth Hisp	All Others	White
black	0	1	2	3	4
Mexican	0	0	0	0	0
Oth Hisp	0	0	0	0	0
All Others	0	0	0	0	0
White	0	0	0	0	0

```

. replace QS= wife+2 if husb==2 & husb==2 & wife>husb
(3 real changes made)

```

```

. table husb wife, contents(mean QS)

```

husb	black	Mexican	wife Oth Hisp	All Others	White
black	0	1	2	3	4
Mexican	0	0	5	6	7
Oth Hisp	0	0	0	0	0
All Others	0	0	0	0	0
White	0	0	0	0	0

```

. replace QS= wife+4 if husb==3 & husb==3 & wife>husb
(2 real changes made)

```

```

. table husb wife, contents(mean QS)

```

husb	black	Mexican	wife Oth Hisp	All Others	White
black	0	1	2	3	4
Mexican	0	0	5	6	7
Oth Hisp	0	0	0	0	0
All Others	0	0	0	0	0
White	0	0	0	0	0

	black	Mexican	Oth Hisp	All Others	White
black	0	1	2	3	4
Mexican	0	0	5	6	7
Oth Hisp	0	0	0	8	9
All Others	0	0	0	0	0
White	0	0	0	0	0

```
. replace QS= husb-1 if wife==1
(4 real changes made)
```

```
. replace QS= husb+2 if wife==2 & husb>wife
(3 real changes made)
```

```
. table husb wife, contents(mean QS)
```

husb	wife				
	black	Mexican	Oth Hisp	All Others	White
black	0	1	2	3	4
Mexican	1	0	5	6	7
Oth Hisp	2	5	0	8	9
All Others	3	6	0	0	0
White	4	7	0	0	0

```
. replace QS= husb+4 if wife==3 & husb==3 & wife<husb
(0 real changes made)
```

```
. replace QS= husb+4 if wife==3 & wife<husb
(2 real changes made)
```

```
. table husb wife, contents(mean QS)
```

husb	wife				
	black	Mexican	Oth Hisp	All Others	White
black	0	1	2	3	4
Mexican	1	0	5	6	7
Oth Hisp	2	5	0	8	9
All Others	3	6	8	0	0
White	4	7	9	0	0

```
. replace QS=10 if (husb==4 & wife==5) | (wife==4 & husb==5)
(2 real changes made)
```

```
. table husb wife, contents(mean QS)
```

husb	wife				
	black	Mexican	Oth Hisp	All Others	White
black	0	1	2	3	4
Mexican	1	0	5	6	7
Oth Hisp	2	5	0	8	9

All Others		3	6	8	0	10
White		4	7	9	10	0

. *OK, a little cumbersome to create but that's our set of 10 QS terms.

. desmat: poisson count husb wife QS

Poisson regression

Dependent variable	count
Optimization:	ml
Number of observations:	25
Initial log likelihood:	-80138.505
Log likelihood:	-89.596
LR chi square:	160097.818
Model degrees of freedom:	18
Pseudo R-squared:	0.999
Prob:	0.000

nr	Effect	Coeff	s.e.
	count		
	husb		
1	Mexican	-0.431**	0.051
2	Oth Hisp	-1.866**	0.065
3	All Others	-1.190**	0.057
4	White	0.625**	0.049
	wife		
5	Mexican	0.399**	0.051
6	Oth Hisp	-0.970**	0.065
7	All Others	-0.193**	0.057
8	White	1.319**	0.049
	QS		
9	1	-4.596**	0.109
10	2	-3.814**	0.150
11	3	-4.323**	0.132
12	4	-4.274**	0.059
13	5	-1.956**	0.069
14	6	-3.148**	0.078
15	7	-2.284**	0.023
16	8	-3.314**	0.171
17	9	-2.047**	0.050
18	10	-2.550**	0.038
19	_cons	8.312**	0.016

* p < .05

** p < .01

. poisgof

Goodness-of-fit chi2	=	1.379208
Prob > chi2(6)	=	0.9671

. display 1.38-(6*(ln(42428)))
-62.553383

```

. predict P_QS
(option n assumed; predicted number of events)

. gen ID_QS=50*(abs(( P_QS/42428)-(count/42428)))

. table husb wife, contents(sum ID_QS) row col

```

husb	wife					Total
	black	Mexican	Oth Hisp	All Others	White	
black	0	.0020384	.0024689	.0030065	.003437	.0109508
Mexican	.0020384	0	.0010243	.0015316	.0005175	.0051118
Oth Hisp	.0024689	.0010243	0	.0010543	.0003903	.0049378
All Others	.0030065	.0015316	.0010543	0	.0025292	.0081216
White	.003437	.0005174	.0003903	.0025292	0	.0068739
Total	.0109508	.0051118	.0049378	.0081216	.006874	.035996

```

. *That's a very small ID.
. desmat: poisson count husb wife QS endog

```

Poisson regression

```

Dependent variable: count
Optimization: ml
Number of observations: 25
Initial log likelihood: -80138.505
Log likelihood: -89.596
LR chi square: 160097.818
Model degrees of freedom: 18
Pseudo R-squared: 0.999
Prob: 0.000

```

nr	Effect	Coeff	s.e.
count			
husb			
1	Mexican	-0.431**	0.051
2	Oth Hisp	-1.866**	0.065
3	All Others	-1.190**	0.057
4	White	0.625**	0.049
wife			
5	Mexican	0.399**	0.051
6	Oth Hisp	-0.970**	0.065
7	All Others	-0.193**	0.057
8	White	1.319**	0.049
QS			
9	1	-4.596**	0.109
10	2	-3.814**	0.150
11	3	-4.323**	0.132
12	4	-4.274**	0.059
13	5	-1.956**	0.069
14	6	-3.148**	0.078
15	7	-2.284**	0.023

16	8	-3.314**	0.171
17	9	-2.047**	0.050
18	10	-2.550**	0.038
19	_cons	8.312**	0.016

* p < .05
** p < .01

. *And note that you can't put the endogamy diagonal terms in here- they're dropped because they are redundant.
. poisgof

Goodness-of-fit chi2 = 1.379208
Prob > chi2(6) = 0.9671

. desmat: poisson count husb wife BW MOh MB endog

Poisson regression

Dependent variable	count
Optimization:	ml
Number of observations:	25
Initial log likelihood:	-80138.505
Log likelihood:	-92.059
LR chi square:	160092.893
Model degrees of freedom:	16
Pseudo R-squared:	0.999
Prob:	0.000

nr	Effect	Coeff	s.e.

	count		
	husb		
1	Mexican	0.658**	0.124
2	Oth Hisp	-0.568**	0.134
3	All Others	-0.374**	0.127
4	White	2.387**	0.103
	wife		
5	Mexican	1.486**	0.139
6	Oth Hisp	0.333*	0.148
7	All Others	0.622**	0.142
8	White	3.081**	0.121
	BW		
9	1	-0.909**	0.133
	MOh		
10	1	0.784**	0.102
	MB		
11	1	-0.556**	0.147
	endog		
12	1	5.128**	0.211
13	2	2.952**	0.083
14	3	2.527**	0.120
15	4	3.497**	0.085
16	5	1.604**	0.080
17	_cons	3.184**	0.210

* p < .05

** p < .01

. poisgof

Goodness-of-fit chi2 = 6.304709
Prob > chi2(8) = 0.6131

. predict P_best
(option n assumed; predicted number of events)

. gen ID_best=50*(abs((P_best/42428)-(count/42428)))

. table husb wife, contents(sum ID_best) row col

```
-----
```

husb	wife					Total
	black	Mexican	Oth Hisp	All Others	White	
black	0	.0020675	.002001	.0035317	.0034651	.0110653
Mexican	.0020675	0	.0006289	.0095586	.0081199	.020375
Oth Hisp	.0027173	.0006289	0	.0088506	.0067623	.018959
All Others	.0028154	.005389	.0060969	0	.0021075	.0164087
White	.0034651	.0068277	.007469	.0028237	0	.0205855
Total	.0110653	.0149131	.0161958	.0247647	.0204548	.0873935

```
-----
```

. exit, clear