

Hochguertel & Ohlsson:  
Compensatory Inter Vivos Gifts.  
Revision 2 for J Applied Econometrics

FULL SET OF RESULTS

February 27, 2008

**Remark**

Below a list of computer output with regression results. Most tables were generated with Fortran (F77) using NAG library routines. In these tables, Column I signifies whether the parameter was 'included', i.e., whether the likelihood function was optimized with respect to this particular parameter. If not (0), standard errors and (asymptotic) t-values are set to zero.

**Legend to Variable Names**

|             |                                                                       |
|-------------|-----------------------------------------------------------------------|
| constant    | intercept                                                             |
| Kage1       | child's age (first linear spline segment, age in [0,25])              |
| Kage2       | child's age (second linear spline segment, age in [25,30])            |
| Kage3       | child's age (third linear spline segment, age in [30,40])             |
| Kage4       | child's age (fourth linear spline segment, age in [40,50])            |
| Kage5       | child's age (fifth linear spline segment, age in [50+])               |
| Kedu1       | child's education (first linear spline segment, education in [0,12])  |
| Kedu2       | child's education (second linear spline segment, education in [0,16]) |
| Kedu3       | child's education (third linear spline segment, education in [16+])   |
| Kageedu     | child: age x education interaction (continuous)                       |
| KXedu       | child: education set to zero (was: missing) (0/1)                     |
| KXwrk       | child: working hours set to zero (was: missing) (0/1)                 |
| Kmstat      | child's age (continuous)                                              |
| KXmst       | child: marital status set to zero (was: missing) (0/1)                |
| WV2         | wave = 1994                                                           |
| TAKageB     | time-average of Kage                                                  |
| TAKeduB     | time-average of Kedu                                                  |
| TAKageeduB  | time-average of Kageedu                                               |
| TAKXeduB    | time-average of KXedu                                                 |
| TAKwrkge30B | time-average of Kwrkge30                                              |
| TAKwrklt30B | time-average of Kwrklt30                                              |
| TAKXwrkB    | time-average of KXwrk                                                 |
| TAKXmstatB  | time-average of KXmstat                                               |
| TAKXmstB    | time-average of KXmst                                                 |
| Kage        | child's age (continuous)                                              |
| Ksexmale    | child's sex: male (0/1)                                               |

|              |                                                                     |
|--------------|---------------------------------------------------------------------|
| Knatural     | child: child of both parents (0/1)                                  |
| Kwrkge30L1   | child: works 30 or more hours a week (0/1), lagged 1 wave           |
| Kwrklt30L1   | child: works 30 or more hours a week (0/1), lagged 1 wave           |
| KmstatL1     | child: married (0/1), lagged 1 wave                                 |
| KkidsL1      | child: has children of his or her own (0/1), lagged 1 wave          |
| K10milesL1   | child: lives within 10 miles from parent (0/1), lagged 1 wave       |
| KhomeownL1   | child: owns home (0/1), lagged 1 wave                               |
| KYperm       | child: permanent (family) income (continuous)                       |
| KliqL1       | child: permanent income exceeds current income (0/1), lagged 1 wave |
| FAM_AGE      | family respondent: age                                              |
| FAM_SCHLYRS  | family respondent: education in years                               |
| FAM_SEXMALE  | family respondent: sex: male (0/1)                                  |
| FAM_RACEBLC  | family respondent: race: black (0/1)                                |
| FAM_RACEOTH  | family respondent: race: other (0/1)                                |
| FAM_HISPANI  | family respondent: ethnicity: hispanic (0/1)                        |
| FAM_USBORN   | family respondent: born in US (0/1)                                 |
| H_rndincL1   | parental household: income (source: RANDHRS), lagged 1 wave         |
| H_rndasstL1  | parental household: net worth (source: RANDHRS), lagged 1 wave      |
| FAM_hfairL1  | family respondent: health "fair" (0/1), lagged 1 wave               |
| FAM_hgoodL1  | family respondent: health "good" (0/1), lagged 1 wave               |
| FAM_hvgoodL  | family respondent: health "very good" (0/1), lagged 1 wave          |
| FAM_hexcellL | family respondent: health "excellent" (0/1), lagged 1 wave          |
| NK3          | number of children: 3 (0/1)                                         |
| NK4          | number of children: 4 (0/1)                                         |
| NK5          | number of children: 5 (0/1)                                         |
| NK6          | number of children: 6 (0/1)                                         |
| NK7          | number of children: 7 or more (0/1)                                 |
| WV3          | wave = 1996                                                         |
| WV4          | wave = 1998                                                         |
| WV5          | wave = 2000                                                         |
| WV6          | wave = 2002                                                         |
| avKage       | within-family (across children) average of Kage                     |
| avKsex       | within-family (across children) average of Ksexmale                 |
| avKnatural   | within-family (across children) average of Knatural                 |
| avKwrkge30   | within-family (across children) average of Kwrkge30                 |
| avKwrklt30   | within-family (across children) average of Kwrklt30                 |
| avKmstat     | within-family (across children) average of Kmstat                   |
| avKkids      | within-family (across children) average of Kkids                    |
| avK10miles   | within-family (across children) average of K10miles                 |
| avKhomeown   | within-family (across children) average of Khomeown                 |
| avKYperm     | within-family (across children) average of KYperm                   |
| avKliq       | within-family (across children) average of Kliq                     |
| sigma        | log standard deviation of error                                     |
| sig RE in    | log standard deviation of random effect, "inner level" (child)      |
| sig RE out   | log standard deviation of random effect, "outer level" (family)     |

## Child Income Regression

file: kpy1bB.res

N children = 15724

N obs = 48145

Log Likelihood (unscaled) -44367.6764

ESTIMATES (unscaled)

computed using 50 rand

with base 5

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| NR | I | name        | estimate  | stderr   | t-value   |
|----|---|-------------|-----------|----------|-----------|
| 1  | 1 | constant    | 5.754651  | 0.239280 | 24.04983  |
| 2  | 1 | Kage1       | 0.027092  | 0.008970 | 3.02019   |
| 3  | 1 | Kage2       | -0.013699 | 0.006830 | -2.00572  |
| 4  | 1 | Kage3       | -0.042614 | 0.006182 | -6.89277  |
| 5  | 1 | Kage4       | -0.060298 | 0.006438 | -9.36666  |
| 6  | 1 | Kage5       | -0.060465 | 0.009882 | -6.11883  |
| 7  | 1 | Kedu1       | -0.187954 | 0.016188 | -11.61058 |
| 8  | 1 | Kedu2       | -0.134661 | 0.016144 | -8.34131  |
| 9  | 1 | Kedu3       | -0.096845 | 0.024210 | -4.00022  |
| 10 | 1 | Kageedu     | 0.004846  | 0.000380 | 12.74742  |
| 11 | 1 | KXedu       | -0.008436 | 0.014624 | -0.57688  |
| 12 | 1 | Kwrkge30    | 0.268232  | 0.012303 | 21.80297  |
| 13 | 1 | Kwrklt30    | 0.032439  | 0.016178 | 2.00519   |
| 14 | 1 | KXwrk       | -0.009148 | 0.040396 | -0.22646  |
| 15 | 1 | Kmstat      | 0.460661  | 0.010513 | 43.81639  |
| 16 | 1 | KXmst       | 0.184217  | 0.112671 | 1.63499   |
| 17 | 1 | WV2         | 0.110135  | 0.010794 | 10.20336  |
| 18 | 1 | WV3         | 0.119031  | 0.015631 | 7.61487   |
| 19 | 1 | WV4         | 0.014819  | 0.055091 | 0.26898   |
| 20 | 1 | WV5         | 0.074441  | 0.027559 | 2.70115   |
| 21 | 1 | WV6         | 0.082996  | 0.033859 | 2.45126   |
| 22 | 1 | Ksexmale    | -0.053423 | 0.009866 | -5.41468  |
| 23 | 1 | TAKageB     | 0.056409  | 0.007471 | 7.55012   |
| 24 | 1 | TAKeduB     | 0.264798  | 0.020631 | 12.83481  |
| 25 | 1 | TAKageeduB  | -0.004700 | 0.000517 | -9.08287  |
| 26 | 1 | TAKXeduB    | 0.140308  | 0.039744 | 3.53026   |
| 27 | 1 | TAKwrkge30B | 0.335336  | 0.022093 | 15.17828  |
| 28 | 1 | TAKwrklt30B | 0.131460  | 0.037557 | 3.50026   |
| 29 | 1 | TAKXwrkB    | -0.027977 | 0.053812 | -0.51991  |
| 30 | 1 | TAKXmstatB  | 0.243105  | 0.015363 | 15.82358  |

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|    |   |             |          |          |           |
|----|---|-------------|----------|----------|-----------|
| 31 | 1 | TAKXmstB    | 0.298585 | 0.255072 | 1.17059   |
| 32 |   | 1sigma      | 0.469598 | 0.002563 | 183.20750 |
| 33 | 0 | Kage1       | 0.000000 | 0.000000 | 0.00000   |
| 34 | 0 | Kage2       | 0.000000 | 0.000000 | 0.00000   |
| 35 | 0 | Kage3       | 0.000000 | 0.000000 | 0.00000   |
| 36 | 0 | Kage4       | 0.000000 | 0.000000 | 0.00000   |
| 37 | 0 | Kage5       | 0.000000 | 0.000000 | 0.00000   |
| 38 | 0 | Kedu1       | 0.000000 | 0.000000 | 0.00000   |
| 39 | 0 | Kedu2       | 0.000000 | 0.000000 | 0.00000   |
| 40 | 0 | Kedu3       | 0.000000 | 0.000000 | 0.00000   |
| 41 | 0 | Kageedu     | 0.000000 | 0.000000 | 0.00000   |
| 42 | 0 | KXedu       | 0.000000 | 0.000000 | 0.00000   |
| 43 | 0 | Kwrkge30    | 0.000000 | 0.000000 | 0.00000   |
| 44 | 0 | Kwrklt30    | 0.000000 | 0.000000 | 0.00000   |
| 45 | 0 | KXwrk       | 0.000000 | 0.000000 | 0.00000   |
| 46 | 0 | Kmstat      | 0.000000 | 0.000000 | 0.00000   |
| 47 | 0 | KXmst       | 0.000000 | 0.000000 | 0.00000   |
| 48 | 0 | WV2         | 0.000000 | 0.000000 | 0.00000   |
| 49 | 0 | WV3         | 0.000000 | 0.000000 | 0.00000   |
| 50 | 0 | WV4         | 0.000000 | 0.000000 | 0.00000   |
| 51 | 0 | WV5         | 0.000000 | 0.000000 | 0.00000   |
| 52 | 0 | WV6         | 0.000000 | 0.000000 | 0.00000   |
| 53 | 0 | Ksexmale    | 0.000000 | 0.000000 | 0.00000   |
| 54 | 0 | TAKageB     | 0.000000 | 0.000000 | 0.00000   |
| 55 | 0 | TAKeduB     | 0.000000 | 0.000000 | 0.00000   |
| 56 | 0 | TAKageeduB  | 0.000000 | 0.000000 | 0.00000   |
| 57 | 0 | TAKXeduB    | 0.000000 | 0.000000 | 0.00000   |
| 58 | 0 | TAKwrkge30B | 0.000000 | 0.000000 | 0.00000   |
| 59 | 0 | TAKwrklt30B | 0.000000 | 0.000000 | 0.00000   |
| 60 | 0 | TAKXwrkB    | 0.000000 | 0.000000 | 0.00000   |
| 61 | 0 | TAKXmstatB  | 0.000000 | 0.000000 | 0.00000   |
| 62 | 0 | TAKXmstB    | 0.000000 | 0.000000 | 0.00000   |
| 63 |   | 1sig RE in  | 0.457615 | 0.004546 | 100.66064 |

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### Main Estimates: Table 7: invhypsln

file: mb0.res

N families = 735  
 N children = 2231  
 N obs = 10832

Log Likelihood (unscaled) -8425.6447

ESTIMATES (unscaled)

computed using 100 and 100 randomized Halton draws  
with bases 3 and 5

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=====
NR I name          estimate      stderr      t-value
-----
 1 1constant      -15.819074   6.023995   -2.62601
 2 1 Kage         -0.022002   0.083275   -0.26420
 3 1 Ksexmale     -1.119732   0.565590   -1.97976
 4 1 Knatural      4.366260   1.327908    3.28807
 5 1 Kwrkge30L1   -0.855253   0.639271   -1.33786
 6 1 Kwrklt30L1  -0.120809   0.873425   -0.13832
 7 1 KmstatL1     -0.128402   0.622255   -0.20635
 8 1 KkidsL1      2.522323   0.669528    3.76732
 9 1 K10milesL1   0.346363   0.511682    0.67691
10 1 KhomeownL1  -3.476595   0.573950   -6.05731
11 1 KYperm       -0.509989   0.078783   -6.47331
12 1 KliqL1       0.459110   1.571757    0.29210
13 1 FAM_AGE      0.099705   0.118144    0.84393
14 1 FAM_SCHLYRS  0.694979   0.178811    3.88667
15 1 FAM_SEXMALE -0.285257   1.693988   -0.16839
16 1 FAM_RACEBLC  -2.301134   1.716632   -1.34049
17 1 FAM_RACEOTH  -4.203300   3.865058   -1.08751
18 1 FAM_HISPANI  -2.243861   3.318939   -0.67608
19 1 FAM_USBORN   -5.217824   1.344837   -3.87989
20 1 H_rndincL1   0.079486   0.031043    2.56053
21 1 H_rndasstL1  0.015605   0.004573    3.41255
22 1 FAM_hfairL1  1.055391   1.434111    0.73592
23 1 FAM_hgoodL1  1.655684   1.416807    1.16860
24 1 FAM_hvgoodL  1.081106   1.418378    0.76221
25 1 FAM_hexcell  0.777419   1.467632    0.52971
26 1 NK3          -4.032323   0.881295   -4.57545
27 1 NK4          -8.926604   1.166698   -7.65117
28 1 NK5          -5.785789   1.259283   -4.59451
29 1 NK6          -4.382338   1.577675   -2.77772
30 1 NK7          -7.870647   2.286975   -3.44151
31 1 WV3          0.063091   0.598077    0.10549
32 1 WV4          -2.250690   0.738874   -3.04611
33 1 WV5          -2.043781   0.879676   -2.32333
34 1 WV6          -2.280196   1.028336   -2.21736
35 1 avKage       -0.037329   0.134752   -0.27702
36 1 avKsex       0.295386   1.090229    0.27094
37 1 avKnatural   0.777594   1.553230    0.50063
38 1 avKwrkge30  0.238764   0.930958    0.25647
39 1 avKwrklt30  1.207740   1.192876    1.01246
40 1 avKmstat     -1.370457   0.893423   -1.53394
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|    |   |             |           |          |          |
|----|---|-------------|-----------|----------|----------|
| 41 | 1 | avKkids     | -1.090890 | 0.982164 | -1.11070 |
| 42 | 1 | avK10miles  | 0.619079  | 0.689033 | 0.89848  |
| 43 | 1 | avKhomeown  | 0.501377  | 0.749491 | 0.66896  |
| 44 | 1 | avKYperm    | 0.229995  | 0.079607 | 2.88912  |
| 45 | 1 | avKliq      | 4.500068  | 2.267115 | 1.98493  |
| 46 | 1 | lsigma      | 2.716911  | 0.353335 | 7.68934  |
| 47 | 1 | Kage        | -0.006993 | 0.005789 | -1.20800 |
| 48 | 1 | Ksexmale    | 0.041856  | 0.042486 | 0.98518  |
| 49 | 1 | Knatural    | -0.183001 | 0.075359 | -2.42838 |
| 50 | 1 | Kwrkge30L1  | 0.110124  | 0.060050 | 1.83388  |
| 51 | 1 | Kwrklt30L1  | 0.068064  | 0.086054 | 0.79094  |
| 52 | 1 | KmstatL1    | -0.078250 | 0.052253 | -1.49753 |
| 53 | 1 | KkidsL1     | -0.064490 | 0.052362 | -1.23161 |
| 54 | 1 | K10milesL1  | 0.008635  | 0.041887 | 0.20615  |
| 55 | 1 | KhomeownL1  | 0.154602  | 0.048565 | 3.18344  |
| 56 | 1 | KYperm      | 0.014234  | 0.003540 | 4.02068  |
| 57 | 1 | KliqL1      | -0.214012 | 0.213339 | -1.00316 |
| 58 | 1 | FAM_AGE     | -0.004503 | 0.006008 | -0.74951 |
| 59 | 1 | FAM_SCHLYRS | -0.029225 | 0.010362 | -2.82034 |
| 60 | 1 | FAM_SEXMALE | 0.008795  | 0.099291 | 0.08858  |
| 61 | 1 | FAM_RACEBLC | -0.014094 | 0.096675 | -0.14579 |
| 62 | 1 | FAM_RACEOTH | 0.053239  | 0.224931 | 0.23669  |
| 63 | 1 | FAM_HISPANI | -0.084742 | 0.187694 | -0.45149 |
| 64 | 1 | FAM_USBORN  | 0.069090  | 0.085573 | 0.80737  |
| 65 | 1 | H_rndincL1  | -0.001831 | 0.003199 | -0.57229 |
| 66 | 1 | H_rndasstL1 | 0.000267  | 0.000371 | 0.71921  |
| 67 | 1 | FAM_hfairL1 | -0.026804 | 0.128691 | -0.20828 |
| 68 | 1 | FAM_hgoodL1 | 0.096696  | 0.117690 | 0.82162  |
| 69 | 1 | FAM_hvgoodL | 0.044397  | 0.117647 | 0.37738  |
| 70 | 1 | FAM_hexcell | 0.053707  | 0.121980 | 0.44029  |
| 71 | 1 | NK3         | 0.183059  | 0.050947 | 3.59316  |
| 72 | 1 | NK4         | 0.240344  | 0.063580 | 3.78021  |
| 73 | 1 | NK5         | 0.081028  | 0.075571 | 1.07222  |
| 74 | 1 | NK6         | 0.053553  | 0.100459 | 0.53308  |
| 75 | 1 | NK7         | 0.159932  | 0.123437 | 1.29566  |
| 76 | 1 | WV3         | -0.000707 | 0.062808 | -0.01126 |
| 77 | 1 | WV4         | 0.092566  | 0.066481 | 1.39237  |
| 78 | 1 | WV5         | 0.110483  | 0.072734 | 1.51900  |
| 79 | 1 | WV6         | 0.146025  | 0.077808 | 1.87674  |
| 80 | 0 | avKage      | 0.000000  | 0.000000 | 0.00000  |
| 81 | 0 | avKsex      | 0.000000  | 0.000000 | 0.00000  |
| 82 | 0 | avKnatural  | 0.000000  | 0.000000 | 0.00000  |
| 83 | 0 | avKwrkge30  | 0.000000  | 0.000000 | 0.00000  |
| 84 | 0 | avKwrklt30  | 0.000000  | 0.000000 | 0.00000  |
| 85 | 0 | avKmstat    | 0.000000  | 0.000000 | 0.00000  |
| 86 | 0 | avKkids     | 0.000000  | 0.000000 | 0.00000  |

|                 |          |          |          |
|-----------------|----------|----------|----------|
| 87 0 avK10miles | 0.000000 | 0.000000 | 0.000000 |
| 88 0 avKhomeown | 0.000000 | 0.000000 | 0.000000 |
| 89 0 avKYperm   | 0.000000 | 0.000000 | 0.000000 |
| 90 0 avKliq     | 0.000000 | 0.000000 | 0.000000 |
| 91 1sig RE in   | 1.052760 | 0.095016 | 11.07984 |
| 92 1sig RE out  | 1.923569 | 0.046648 | 41.23603 |

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**Main Estimates: Table 7: levels**

file: ma0.res.h99

N families = 735  
 N children = 2231  
 N obs = 10832

Log Likelihood (unscaled) -16741.6387

ESTIMATES (unscaled)

computed using 99 and 99 randomized Halton draws  
 with bases 3 and 5

=====

| NR | I | name        | estimate     | stderr      | t-value  |
|----|---|-------------|--------------|-------------|----------|
| 1  | 1 | constant    | -2693.257724 | 2096.545538 | -1.28462 |
| 2  | 1 | Kage        | -16.477981   | 21.078876   | -0.78173 |
| 3  | 1 | Ksexmale    | -342.588017  | 176.450900  | -1.94155 |
| 4  | 1 | Knatural    | 1590.356956  | 417.851458  | 3.80603  |
| 5  | 1 | Kwrkge30L1  | -410.259677  | 211.090627  | -1.94352 |
| 6  | 1 | Kwrklt30L1  | -723.372808  | 313.679254  | -2.30609 |
| 7  | 1 | KmstatL1    | -644.062015  | 201.954050  | -3.18915 |
| 8  | 1 | KkidsL1     | 595.790368   | 213.169418  | 2.79491  |
| 9  | 1 | K10milesL1  | 479.445695   | 164.972373  | 2.90622  |
| 10 | 1 | KhomeownL1  | -1023.820159 | 198.473940  | -5.15846 |
| 11 | 1 | KYperm      | -192.011226  | 28.809814   | -6.66479 |
| 12 | 1 | KliqL1      | -164.608424  | 476.590387  | -0.34539 |
| 13 | 1 | FAM_AGE     | -7.213954    | 39.531853   | -0.18248 |
| 14 | 1 | FAM_SCHLYRS | 114.733378   | 61.257547   | 1.87297  |
| 15 | 1 | FAM_SEXMALE | 210.321614   | 578.879430  | 0.36333  |
| 16 | 1 | FAM_RACEBLC | -906.890868  | 462.129373  | -1.96242 |
| 17 | 1 | FAM_RACEOTH | -1483.546188 | 1298.935500 | -1.14212 |
| 18 | 1 | FAM_HISPANI | -1687.997504 | 980.691530  | -1.72123 |
| 19 | 1 | FAM_USBORN  | -1808.273248 | 520.371502  | -3.47497 |
| 20 | 1 | H_rndincL1  | 45.663156    | 21.435628   | 2.13025  |
| 21 | 1 | H_rndasstL1 | 2.820519     | 2.536982    | 1.11176  |

|    |   |             |              |            |          |
|----|---|-------------|--------------|------------|----------|
| 22 | 1 | FAM_hfairL1 | 23.700615    | 320.749656 | 0.07389  |
| 23 | 1 | FAM_hgoodL1 | 448.842390   | 340.906649 | 1.31661  |
| 24 | 1 | FAM_hvgoodL | 111.838919   | 346.986263 | 0.32232  |
| 25 | 1 | FAM_hexcell | 15.188707    | 373.728903 | 0.04064  |
| 26 | 1 | NK3         | -889.432716  | 298.623514 | -2.97844 |
| 27 | 1 | NK4         | -3935.617899 | 539.850831 | -7.29020 |
| 28 | 1 | NK5         | -1727.665473 | 391.587784 | -4.41195 |
| 29 | 1 | NK6         | -281.517012  | 484.219198 | -0.58138 |
| 30 | 1 | NK7         | -3167.696723 | 802.915062 | -3.94525 |
| 31 | 1 | WV3         | 969.207790   | 221.595004 | 4.37378  |
| 32 | 1 | WV4         | 523.802443   | 258.063076 | 2.02975  |
| 33 | 1 | WV5         | -462.887915  | 351.433216 | -1.31714 |
| 34 | 1 | WV6         | 229.261326   | 368.586185 | 0.62200  |
| 35 | 1 | avKage      | 18.168409    | 48.024696  | 0.37831  |
| 36 | 1 | avKsex      | -455.436527  | 401.973519 | -1.13300 |
| 37 | 1 | avKnatural  | 864.609331   | 598.398164 | 1.44487  |
| 38 | 1 | avKwrkge30  | -99.904275   | 338.528104 | -0.29511 |
| 39 | 1 | avKwrklt30  | 136.668959   | 444.653581 | 0.30736  |
| 40 | 1 | avKmstat    | -315.448116  | 330.757265 | -0.95371 |
| 41 | 1 | avKkids     | -402.362722  | 366.705706 | -1.09724 |
| 42 | 1 | avK10miles  | 210.305755   | 243.896440 | 0.86227  |
| 43 | 1 | avKhomeown  | 181.344641   | 278.334808 | 0.65153  |
| 44 | 1 | avKYperm    | 39.647816    | 31.655092  | 1.25249  |
| 45 | 1 | avKliq      | 1468.961612  | 776.846093 | 1.89093  |
| 46 | 1 | lsigma      | 6.621617     | 0.281451   | 23.52674 |
| 47 | 0 | Kage        | 0.000000     | 0.000000   | 0.00000  |
| 48 | 1 | Ksexmale    | 0.120605     | 0.038633   | 3.12184  |
| 49 | 1 | Knatural    | -0.308255    | 0.064346   | -4.79061 |
| 50 | 1 | Kwrkge30L1  | 0.071354     | 0.055682   | 1.28146  |
| 51 | 1 | Kwrklt30L1  | 0.181333     | 0.077552   | 2.33820  |
| 52 | 1 | KmstatL1    | 0.205814     | 0.049207   | 4.18259  |
| 53 | 1 | KkidsL1     | -0.007327    | 0.046693   | -0.15692 |
| 54 | 1 | K10milesL1  | -0.123744    | 0.038923   | -3.17923 |
| 55 | 1 | KhomeownL1  | 0.149020     | 0.046802   | 3.18403  |
| 56 | 1 | KYperm      | 0.009330     | 0.003004   | 3.10542  |
| 57 | 1 | KliqL1      | -0.009695    | 0.219396   | -0.04419 |
| 58 | 1 | FAM_AGE     | 0.021126     | 0.004835   | 4.36933  |
| 59 | 1 | FAM_SCHLYRS | 0.014106     | 0.009123   | 1.54623  |
| 60 | 1 | FAM_SEXMALE | 0.074168     | 0.088863   | 0.83463  |
| 61 | 0 | FAM_RACEBLC | 0.000000     | 0.000000   | 0.00000  |
| 62 | 0 | FAM_RACEOTH | 0.000000     | 0.000000   | 0.00000  |
| 63 | 0 | FAM_HISPANI | 0.000000     | 0.000000   | 0.00000  |
| 64 | 0 | FAM_USBORN  | 0.000000     | 0.000000   | 0.00000  |
| 65 | 1 | H_rndincL1  | 0.017929     | 0.003671   | 4.88344  |
| 66 | 1 | H_rndasstL1 | 0.002431     | 0.000459   | 5.30084  |
| 67 | 0 | FAM_hfairL1 | 0.000000     | 0.000000   | 0.00000  |



|    |   |             |           |          |           |
|----|---|-------------|-----------|----------|-----------|
| 68 | 0 | FAM_hgoodL1 | 0.000000  | 0.000000 | 0.000000  |
| 69 | 0 | FAM_hvgoodL | 0.000000  | 0.000000 | 0.000000  |
| 70 | 0 | FAM_hexcell | 0.000000  | 0.000000 | 0.000000  |
| 71 | 1 | NK3         | -0.003154 | 0.044050 | -0.07161  |
| 72 | 1 | NK4         | 0.404407  | 0.061844 | 6.53913   |
| 73 | 0 | NK5         | 0.000000  | 0.000000 | 0.000000  |
| 74 | 1 | NK6         | -0.401950 | 0.090668 | -4.43320  |
| 75 | 1 | NK7         | 0.213570  | 0.102644 | 2.08069   |
| 76 | 1 | WV3         | -0.495679 | 0.057122 | -8.67752  |
| 77 | 1 | WV4         | -0.587978 | 0.061233 | -9.60238  |
| 78 | 1 | WV5         | -0.141865 | 0.061839 | -2.29408  |
| 79 | 1 | WV6         | -0.337974 | 0.063027 | -5.36237  |
| 80 | 0 | avKage      | 0.000000  | 0.000000 | 0.000000  |
| 81 | 0 | avKsex      | 0.000000  | 0.000000 | 0.000000  |
| 82 | 0 | avKnatural  | 0.000000  | 0.000000 | 0.000000  |
| 83 | 0 | avKwrkge30  | 0.000000  | 0.000000 | 0.000000  |
| 84 | 0 | avKwrklt30  | 0.000000  | 0.000000 | 0.000000  |
| 85 | 0 | avKmstat    | 0.000000  | 0.000000 | 0.000000  |
| 86 | 0 | avKkids     | 0.000000  | 0.000000 | 0.000000  |
| 87 | 0 | avK10miles  | 0.000000  | 0.000000 | 0.000000  |
| 88 | 0 | avKhomeown  | 0.000000  | 0.000000 | 0.000000  |
| 89 | 0 | avKYperm    | 0.000000  | 0.000000 | 0.000000  |
| 90 | 0 | avKliq      | 0.000000  | 0.000000 | 0.000000  |
| 91 | 1 | sig RE in   | 7.111800  | 0.142775 | 49.81136  |
| 92 | 1 | sig RE out  | 7.722677  | 0.060380 | 127.90141 |

=====

### Honore Estimates: Table 8: invhypsln

file: mb9.res

estimates for first two children (balanced), Honore LS (with t-values)

|          |         |        |           |
|----------|---------|--------|-----------|
| KAGE     | 0.1525  | 0.0730 | ( 2.090)  |
| KSEXMALE | 0.1581  | 0.3420 | ( 0.462)  |
| KNATURAL | 2.8663  | 2.2804 | ( 1.257)  |
| KWRKGE30 | -1.0132 | 0.5497 | ( -1.843) |
| KWRKLT30 | -0.8723 | 0.7770 | ( -1.123) |
| KMSTAT   | -0.4915 | 0.4447 | ( -1.105) |
| KKIDS    | 0.9004  | 0.4351 | ( 2.069)  |
| K10MILES | 0.5807  | 0.4014 | ( 1.447)  |
| KHOMEOWN | -0.1744 | 0.4289 | ( -0.407) |
| KYPERM   | -0.4434 | 0.1110 | ( -3.995) |

final estimates unbalanced Honore LS [MDE]: (with t-values)

estimates    stderr    t-values

|                                   |         |           |   |           |
|-----------------------------------|---------|-----------|---|-----------|
| KAGE                              | -0.0115 | 0.0429    | ( | -0.269)   |
| KSEXMALE                          | 0.2627  | 0.2522    | ( | 1.042)    |
| KNATURAL                          | 1.5437  | 0.6538    | ( | 2.361)    |
| KWRKGE30                          | -0.4859 | 0.3621    | ( | -1.342)   |
| KWRKLT30                          | 0.0652  | 0.5481    | ( | 0.119)    |
| KMSTAT                            | -0.4890 | 0.3027    | ( | -1.616)   |
| KKIDS                             | 1.2597  | 0.2905    | ( | 4.337)    |
| K10MILES                          | 0.8505  | 0.2598    | ( | 3.274)    |
| KHOMEOWN                          | -0.5355 | 0.2838    | ( | -1.887)   |
| KYPERM                            | -0.4281 | 0.0780    | ( | -5.489)   |
| Wald test [work]                  | df=     | 2.0000000 | : | 2.6119236 |
| Number of total observations used |         | 710.00000 |   |           |

### Honore Estimates: Table 8: levels

file: ma9.res

estimates for first two children (balanced), Honore LS (with t-values)

|          |           |           |   |         |
|----------|-----------|-----------|---|---------|
| KAGE     | 53.2578   | 43.3722   | ( | 1.228)  |
| KSEXMALE | -114.9324 | 144.8682  | ( | -0.793) |
| KNATURAL | 857.4025  | 1020.3824 | ( | 0.840)  |
| KWRKGE30 | -650.4303 | 677.5021  | ( | -0.960) |
| KWRKLT30 | -600.9348 | 626.0813  | ( | -0.960) |
| KMSTAT   | 21.3171   | 243.3598  | ( | 0.088)  |
| KKIDS    | 140.2396  | 222.3106  | ( | 0.631)  |
| K10MILES | 39.8573   | 213.7299  | ( | 0.186)  |
| KHOMEOWN | -17.7103  | 221.7250  | ( | -0.080) |
| KYPERM   | -124.4171 | 84.4877   | ( | -1.473) |

final estimates unbalanced Honore LS [MDE]: (with t-values)

|                                   | estimates | stderr    | t-values |           |
|-----------------------------------|-----------|-----------|----------|-----------|
| KAGE                              | -129.6558 | 16.3897   | (        | -7.911)   |
| KSEXMALE                          | 120.3513  | 87.1614   | (        | 1.381)    |
| KNATURAL                          | 697.1312  | 358.6276  | (        | 1.944)    |
| KWRKGE30                          | -295.0672 | 194.5304  | (        | -1.517)   |
| KWRKLT30                          | 605.2136  | 171.5284  | (        | 3.528)    |
| KMSTAT                            | -512.4481 | 84.7895   | (        | -6.044)   |
| KKIDS                             | 803.3437  | 97.7062   | (        | 8.222)    |
| K10MILES                          | 305.8531  | 102.6425  | (        | 2.980)    |
| KHOMEOWN                          | 368.1805  | 108.5252  | (        | 3.393)    |
| KYPERM                            | -78.8679  | 29.8760   | (        | -2.640)   |
| Wald test [work]                  | df=       | 2.0000000 | :        | 62.978040 |
| Number of total observations used |           | 710.00000 |          |           |

## Sensitivity Analysis: Table 9: homoskedastic

file: mb1.res

N families = 735  
 N children = 2231  
 N obs = 10832

Log Likelihood (unscaled) -8474.3377

ESTIMATES (unscaled)

computed using 100 and 100 randomized Halton draws  
 with bases 3 and 5

| NR | I | name        | estimate  | stderr   | t-value  |
|----|---|-------------|-----------|----------|----------|
| 1  |   | 1constant   | -7.593690 | 5.373778 | -1.41310 |
| 2  | 1 | Kage        | -0.131365 | 0.063636 | -2.06432 |
| 3  | 1 | Ksexmale    | -0.591545 | 0.415235 | -1.42460 |
| 4  | 1 | Knatural    | 1.955486  | 0.937611 | 2.08561  |
| 5  | 1 | Kwrkge30L1  | -0.209925 | 0.509822 | -0.41176 |
| 6  | 1 | Kwrklt30L1  | 0.284569  | 0.708023 | 0.40192  |
| 7  | 1 | KmstatL1    | -1.065877 | 0.452870 | -2.35361 |
| 8  | 1 | KkidsL1     | 1.933578  | 0.484678 | 3.98941  |
| 9  | 1 | K10milesL1  | 0.471918  | 0.392168 | 1.20336  |
| 10 | 1 | KhomeownL1  | -2.121568 | 0.413157 | -5.13501 |
| 11 | 1 | KYperm      | -0.254703 | 0.048907 | -5.20789 |
| 12 | 1 | KliqL1      | -0.387467 | 1.544402 | -0.25088 |
| 13 | 1 | FAM_AGE     | 0.030922  | 0.113245 | 0.27305  |
| 14 | 1 | FAM_SCHLYRS | 0.468328  | 0.158318 | 2.95815  |
| 15 | 1 | FAM_SEXMALE | 0.105648  | 1.484851 | 0.07115  |
| 16 | 1 | FAM_RACEBLC | -2.645213 | 1.380299 | -1.91641 |
| 17 | 1 | FAM_RACEOTH | -3.926133 | 3.683314 | -1.06592 |
| 18 | 1 | FAM_HISPANI | -3.134626 | 2.603818 | -1.20386 |
| 19 | 1 | FAM_USBORN  | -4.543863 | 1.488079 | -3.05351 |
| 20 | 1 | H_rndincL1  | 0.077972  | 0.029308 | 2.66048  |
| 21 | 1 | H_rndasstL1 | 0.014741  | 0.004188 | 3.51985  |
| 22 | 1 | FAM_hfairL1 | 0.942089  | 0.982387 | 0.95898  |
| 23 | 1 | FAM_hgoodL1 | 2.926826  | 1.007712 | 2.90443  |
| 24 | 1 | FAM_hvgoodL | 1.780840  | 1.011346 | 1.76086  |
| 25 | 1 | FAM_hexcell | 1.446411  | 1.076198 | 1.34400  |
| 26 | 1 | NK3         | -2.347031 | 0.769974 | -3.04820 |
| 27 | 1 | NK4         | -5.627596 | 0.990470 | -5.68174 |
| 28 | 1 | NK5         | -4.764938 | 1.121435 | -4.24897 |
| 29 | 1 | NK6         | -4.531892 | 1.407436 | -3.21996 |

|    |   |             |           |          |          |
|----|---|-------------|-----------|----------|----------|
| 30 | 1 | NK7         | -5.513071 | 1.750678 | -3.14911 |
| 31 | 1 | WV3         | 0.225088  | 0.463598 | 0.48552  |
| 32 | 1 | WV4         | -1.350926 | 0.577924 | -2.33755 |
| 33 | 1 | WV5         | -0.916206 | 0.702143 | -1.30487 |
| 34 | 1 | WV6         | -1.080640 | 0.841484 | -1.28421 |
| 35 | 1 | avKage      | -0.045237 | 0.141419 | -0.31988 |
| 36 | 1 | avKsex      | 0.231905  | 1.147259 | 0.20214  |
| 37 | 1 | avKnatural  | 1.615541  | 1.584488 | 1.01960  |
| 38 | 1 | avKwrkge30  | -0.110733 | 0.983942 | -0.11254 |
| 39 | 1 | avKwrklt30  | 0.886461  | 1.273228 | 0.69623  |
| 40 | 1 | avKmstat    | -2.005724 | 0.912033 | -2.19918 |
| 41 | 1 | avKkids     | -0.808094 | 1.013812 | -0.79708 |
| 42 | 1 | avK10miles  | 0.533081  | 0.710930 | 0.74984  |
| 43 | 1 | avKhomeown  | 0.307124  | 0.778453 | 0.39453  |
| 44 | 1 | avKYperm    | 0.250186  | 0.071501 | 3.49905  |
| 45 | 1 | avKliq      | 4.191089  | 2.441907 | 1.71632  |
| 46 | 1 | lsigma      | 2.151879  | 0.022400 | 96.06738 |
| 47 | 0 | Kage        | 0.000000  | 0.000000 | 0.00000  |
| 48 | 0 | Ksexmale    | 0.000000  | 0.000000 | 0.00000  |
| 49 | 0 | Knatural    | 0.000000  | 0.000000 | 0.00000  |
| 50 | 0 | Kwrkge30L1  | 0.000000  | 0.000000 | 0.00000  |
| 51 | 0 | Kwrklt30L1  | 0.000000  | 0.000000 | 0.00000  |
| 52 | 0 | KmstatL1    | 0.000000  | 0.000000 | 0.00000  |
| 53 | 0 | KkidsL1     | 0.000000  | 0.000000 | 0.00000  |
| 54 | 0 | K10milesL1  | 0.000000  | 0.000000 | 0.00000  |
| 55 | 0 | KhomeownL1  | 0.000000  | 0.000000 | 0.00000  |
| 56 | 0 | KYperm      | 0.000000  | 0.000000 | 0.00000  |
| 57 | 0 | KliqL1      | 0.000000  | 0.000000 | 0.00000  |
| 58 | 0 | FAM_AGE     | 0.000000  | 0.000000 | 0.00000  |
| 59 | 0 | FAM_SCHLYRS | 0.000000  | 0.000000 | 0.00000  |
| 60 | 0 | FAM_SEXMALE | 0.000000  | 0.000000 | 0.00000  |
| 61 | 0 | FAM_RACEBLC | 0.000000  | 0.000000 | 0.00000  |
| 62 | 0 | FAM_RACEOTH | 0.000000  | 0.000000 | 0.00000  |
| 63 | 0 | FAM_HISPANI | 0.000000  | 0.000000 | 0.00000  |
| 64 | 0 | FAM_USBORN  | 0.000000  | 0.000000 | 0.00000  |
| 65 | 0 | H_rndincL1  | 0.000000  | 0.000000 | 0.00000  |
| 66 | 0 | H_rndasstL1 | 0.000000  | 0.000000 | 0.00000  |
| 67 | 0 | FAM_hfairL1 | 0.000000  | 0.000000 | 0.00000  |
| 68 | 0 | FAM_hgoodL1 | 0.000000  | 0.000000 | 0.00000  |
| 69 | 0 | FAM_hvgoodL | 0.000000  | 0.000000 | 0.00000  |
| 70 | 0 | FAM_hexcell | 0.000000  | 0.000000 | 0.00000  |
| 71 | 0 | NK3         | 0.000000  | 0.000000 | 0.00000  |
| 72 | 0 | NK4         | 0.000000  | 0.000000 | 0.00000  |
| 73 | 0 | NK5         | 0.000000  | 0.000000 | 0.00000  |
| 74 | 0 | NK6         | 0.000000  | 0.000000 | 0.00000  |
| 75 | 0 | NK7         | 0.000000  | 0.000000 | 0.00000  |

|                 |          |          |          |
|-----------------|----------|----------|----------|
| 76 0 WV3        | 0.000000 | 0.000000 | 0.000000 |
| 77 0 WV4        | 0.000000 | 0.000000 | 0.000000 |
| 78 0 WV5        | 0.000000 | 0.000000 | 0.000000 |
| 79 0 WV6        | 0.000000 | 0.000000 | 0.000000 |
| 80 0 avKage     | 0.000000 | 0.000000 | 0.000000 |
| 81 0 avKsex     | 0.000000 | 0.000000 | 0.000000 |
| 82 0 avKnatural | 0.000000 | 0.000000 | 0.000000 |
| 83 0 avKwrkge30 | 0.000000 | 0.000000 | 0.000000 |
| 84 0 avKwrklt30 | 0.000000 | 0.000000 | 0.000000 |
| 85 0 avKmstat   | 0.000000 | 0.000000 | 0.000000 |
| 86 0 avKkids    | 0.000000 | 0.000000 | 0.000000 |
| 87 0 avK10miles | 0.000000 | 0.000000 | 0.000000 |
| 88 0 avKhomeown | 0.000000 | 0.000000 | 0.000000 |
| 89 0 avKYperm   | 0.000000 | 0.000000 | 0.000000 |
| 90 0 avKliq     | 0.000000 | 0.000000 | 0.000000 |
| 91 1sig RE in   | 1.056110 | 0.094480 | 11.17815 |
| 92 1sig RE out  | 1.973197 | 0.048942 | 40.31733 |

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### Sensitivity Analysis: Table 9: random family effects

file: mb2.res

N families = 735  
 N children = 2231  
 N obs = 10832

Log Likelihood (unscaled) -8434.7899

ESTIMATES (unscaled)

computed using 100 and 100 randomized Halton draws  
 with bases 3 and 5

=====

| NR | I | name       | estimate   | stderr   | t-value  |
|----|---|------------|------------|----------|----------|
| 1  | 1 | constant   | -19.700877 | 5.773934 | -3.41204 |
| 2  | 1 | Kage       | -0.037470  | 0.076556 | -0.48945 |
| 3  | 1 | Ksexmale   | -1.081419  | 0.542780 | -1.99237 |
| 4  | 1 | Knatural   | 4.557183   | 1.182654 | 3.85335  |
| 5  | 1 | Kwrkge30L1 | -0.929544  | 0.637400 | -1.45834 |
| 6  | 1 | Kwrklt30L1 | -0.051354  | 0.867311 | -0.05921 |
| 7  | 1 | KmstatL1   | -0.455927  | 0.603144 | -0.75592 |
| 8  | 1 | KkidsL1    | 2.383570   | 0.648481 | 3.67562  |
| 9  | 1 | K10milesL1 | 0.397572   | 0.499546 | 0.79587  |
| 10 | 1 | KhomeownL1 | -3.381410  | 0.563238 | -6.00352 |

|    |   |             |           |          |          |
|----|---|-------------|-----------|----------|----------|
| 11 | 1 | KYperm      | -0.433444 | 0.072826 | -5.95181 |
| 12 | 1 | KliqL1      | 0.141117  | 1.557440 | 0.09061  |
| 13 | 1 | FAM_AGE     | 0.163447  | 0.095518 | 1.71116  |
| 14 | 1 | FAM_SCHLYRS | 0.728762  | 0.169655 | 4.29554  |
| 15 | 1 | FAM_SEXMALE | -0.315743 | 1.609660 | -0.19616 |
| 16 | 1 | FAM_RACEBLC | -2.285286 | 1.763080 | -1.29619 |
| 17 | 1 | FAM_RACEOTH | -3.957589 | 3.847518 | -1.02861 |
| 18 | 1 | FAM_HISPANI | -2.251700 | 3.364191 | -0.66931 |
| 19 | 1 | FAM_USBORN  | -5.192627 | 1.315032 | -3.94867 |
| 20 | 1 | H_rndincL1  | 0.083239  | 0.030682 | 2.71299  |
| 21 | 1 | H_rndasstL1 | 0.016531  | 0.004553 | 3.63056  |
| 22 | 1 | FAM_hfairL1 | 1.238638  | 1.454490 | 0.85160  |
| 23 | 1 | FAM_hgoodL1 | 1.816809  | 1.433751 | 1.26717  |
| 24 | 1 | FAM_hvgoodL | 1.241040  | 1.438963 | 0.86245  |
| 25 | 1 | FAM_hexcell | 1.004007  | 1.482569 | 0.67721  |
| 26 | 1 | NK3         | -4.037424 | 0.865801 | -4.66322 |
| 27 | 1 | NK4         | -9.020796 | 1.151796 | -7.83194 |
| 28 | 1 | NK5         | -5.988708 | 1.320852 | -4.53397 |
| 29 | 1 | NK6         | -4.378229 | 1.496181 | -2.92627 |
| 30 | 1 | NK7         | -8.408537 | 1.969305 | -4.26980 |
| 31 | 1 | WV3         | 0.013802  | 0.590595 | 0.02337  |
| 32 | 1 | WV4         | -2.504860 | 0.720130 | -3.47834 |
| 33 | 1 | WV5         | -2.206443 | 0.841659 | -2.62154 |
| 34 | 1 | WV6         | -2.221867 | 0.973224 | -2.28300 |
| 35 | 0 | avKage      | 0.000000  | 0.000000 | 0.00000  |
| 36 | 0 | avKsex      | 0.000000  | 0.000000 | 0.00000  |
| 37 | 0 | avKnatural  | 0.000000  | 0.000000 | 0.00000  |
| 38 | 0 | avKwrkge30  | 0.000000  | 0.000000 | 0.00000  |
| 39 | 0 | avKwrklt30  | 0.000000  | 0.000000 | 0.00000  |
| 40 | 0 | avKmstat    | 0.000000  | 0.000000 | 0.00000  |
| 41 | 0 | avKkids     | 0.000000  | 0.000000 | 0.00000  |
| 42 | 0 | avK10miles  | 0.000000  | 0.000000 | 0.00000  |
| 43 | 0 | avKhomeown  | 0.000000  | 0.000000 | 0.00000  |
| 44 | 0 | avKYperm    | 0.000000  | 0.000000 | 0.00000  |
| 45 | 0 | avKliq      | 0.000000  | 0.000000 | 0.00000  |
| 46 |   | lsigma      | 2.712907  | 0.354325 | 7.65655  |
| 47 | 1 | Kage        | -0.007697 | 0.005744 | -1.33989 |
| 48 | 1 | Ksexmale    | 0.041488  | 0.042370 | 0.97918  |
| 49 | 1 | Knatural    | -0.182785 | 0.075029 | -2.43618 |
| 50 | 1 | Kwrkge30L1  | 0.102868  | 0.060221 | 1.70819  |
| 51 | 1 | Kwrklt30L1  | 0.058695  | 0.085745 | 0.68452  |
| 52 | 1 | KmstatL1    | -0.071153 | 0.051906 | -1.37080 |
| 53 | 1 | KkidsL1     | -0.076962 | 0.051931 | -1.48202 |
| 54 | 1 | K10milesL1  | 0.017777  | 0.041728 | 0.42602  |
| 55 | 1 | KhomeownL1  | 0.147242  | 0.048304 | 3.04823  |
| 56 | 1 | KYperm      | 0.014786  | 0.003460 | 4.27387  |

|    |   |             |           |          |          |
|----|---|-------------|-----------|----------|----------|
| 57 | 1 | KliqL1      | -0.202517 | 0.210556 | -0.96182 |
| 58 | 1 | FAM_AGE     | -0.003396 | 0.005995 | -0.56653 |
| 59 | 1 | FAM_SCHLYRS | -0.028553 | 0.010337 | -2.76235 |
| 60 | 1 | FAM_SEXMALE | -0.006039 | 0.098453 | -0.06134 |
| 61 | 1 | FAM_RACEBLC | -0.026238 | 0.097925 | -0.26794 |
| 62 | 1 | FAM_RACEOTH | 0.042110  | 0.225177 | 0.18701  |
| 63 | 1 | FAM_HISPANI | -0.114806 | 0.190024 | -0.60416 |
| 64 | 1 | FAM_USBORN  | 0.063518  | 0.084905 | 0.74811  |
| 65 | 1 | H_rndincL1  | -0.001996 | 0.003140 | -0.63593 |
| 66 | 1 | H_rndasstL1 | 0.000335  | 0.000372 | 0.90169  |
| 67 | 1 | FAM_hfairL1 | -0.051609 | 0.129338 | -0.39902 |
| 68 | 1 | FAM_hgoodL1 | 0.078006  | 0.117396 | 0.66447  |
| 69 | 1 | FAM_hvgoodL | 0.025047  | 0.117619 | 0.21295  |
| 70 | 1 | FAM_hexcell | 0.028343  | 0.121433 | 0.23341  |
| 71 | 1 | NK3         | 0.179540  | 0.050679 | 3.54272  |
| 72 | 1 | NK4         | 0.231552  | 0.063073 | 3.67116  |
| 73 | 1 | NK5         | 0.078649  | 0.075818 | 1.03733  |
| 74 | 1 | NK6         | 0.042298  | 0.100177 | 0.42224  |
| 75 | 1 | NK7         | 0.141844  | 0.120366 | 1.17845  |
| 76 | 1 | WV3         | -0.014213 | 0.062675 | -0.22677 |
| 77 | 1 | WV4         | 0.087768  | 0.066279 | 1.32421  |
| 78 | 1 | WV5         | 0.101920  | 0.072464 | 1.40650  |
| 79 | 1 | WV6         | 0.136520  | 0.077132 | 1.76994  |
| 80 | 0 | avKage      | 0.000000  | 0.000000 | 0.00000  |
| 81 | 0 | avKsex      | 0.000000  | 0.000000 | 0.00000  |
| 82 | 0 | avKnatural  | 0.000000  | 0.000000 | 0.00000  |
| 83 | 0 | avKwrkge30  | 0.000000  | 0.000000 | 0.00000  |
| 84 | 0 | avKwrklt30  | 0.000000  | 0.000000 | 0.00000  |
| 85 | 0 | avKmstat    | 0.000000  | 0.000000 | 0.00000  |
| 86 | 0 | avKkids     | 0.000000  | 0.000000 | 0.00000  |
| 87 | 0 | avK10miles  | 0.000000  | 0.000000 | 0.00000  |
| 88 | 0 | avKhomeown  | 0.000000  | 0.000000 | 0.00000  |
| 89 | 0 | avKYperm    | 0.000000  | 0.000000 | 0.00000  |
| 90 | 0 | avKliq      | 0.000000  | 0.000000 | 0.00000  |
| 91 |   | lsig RE in  | 1.066187  | 0.092651 | 11.50756 |
| 92 |   | lsig RE out | 1.910169  | 0.046297 | 41.25943 |

=====

### Sensitivity Analysis: Table 9: tobit

file: mb3mi.out (based on: mb31-5.res)

N families = 735  
N children = 2231  
N obs = 10832

multiple imputed results from spec MB3 (100 Halton draws)

```

=====
                beta                s.e.                t-val
=====
1 1constant          -15.838109           5.9666589          -2.6544351
2 1 Kage              -0.018959764          0.082188355        -0.23068675
3 1 Ksexmale          -1.1850858            0.55813738         -2.1232868
4 1 Knatural           4.2083730             1.3038908           3.2275503
5 1 Kwrkge30L1        -0.88842749           0.62827855         -1.4140662
6 1 Kwrklt30L1        -0.16969469           0.85690496         -0.19803210
7 1 KmstatL1          -0.11204491           0.61497932         -0.18219297
8 1 KkidsL1           2.4713379             0.66054845           3.7413423
9 1 K10milesL1        0.44119017            0.50426322           0.87492038
10 1 KhomeownL1       -3.4648416            0.56691396          -6.1117592
11 1 KYperm           -0.51209843           0.078196125         -6.5488978
12 1 KliqL1           0.32627727            1.5628446           0.20877141
13 1 FAM_AGE           0.11140342            0.11695957           0.95249509
14 1 FAM_SCHLYRS       0.66746379            0.17907388           3.7273095
15 1 FAM_SEXMALE      -0.21905215            1.6892086           -0.12967739
16 1 FAM_RACEBLC       -2.4594986            1.7372441           -1.4157473
17 1 FAM_RACEOTH       -4.2750038             3.8553619           -1.1088463
18 1 FAM_HISPANI       -2.2374279             3.5213325           -0.63539241
19 1 FAM_USBORN        -5.2444858            1.2990647           -4.0371243
20 1 H_rndincL1        0.085229194           0.029196603         2.9191476
21 1 H_rndasstL1      0.015360449           0.0044141473        3.4798225
22 1 FAM_hfairL1       0.96201690            1.4077516           0.68337120
23 1 FAM_hgoodL1       1.5791712             1.3928042           1.1338071
24 1 FAM_hvgoodL       1.0115411             1.3921640           0.72659627
25 1 FAM_hexcell       0.75082324            1.4392451           0.52167852
26 1 NK3               -4.0152218            0.87782669          -4.5740485
27 1 NK4               -8.8474225            1.1548551           -7.6610670
28 1 NK5               -5.8137792            1.2472443           -4.6612994
29 1 NK6               -4.3962802            1.5826117           -2.7778641
30 1 NK7               -7.7488145            2.2422256           -3.4558585
31 1 WV3               0.065850207           0.58903699           0.11179299
32 1 WV4               -2.2367245            0.72792910          -3.0727230
33 1 WV5               -2.0757875            0.87245125          -2.3792590
34 1 WV6               -2.4177367            1.0283144           -2.3511648
35 1 avKage            -0.043729193           0.13367592          -0.32712843
36 1 avKsex            0.30218125            1.0837759           0.27882263
37 1 avKnatural        0.73103475            1.5352310           0.47617246
38 1 avKwrkge30       0.41600010            0.92245231           0.45097193
39 1 avKwrklt30       1.2469174             1.1789231           1.0576748
40 1 avKmstat          -1.4063734            0.88910605          -1.5817836
41 1 avKkids           -1.0043343            0.97629787          -1.0287170
42 1 avK10miles       0.63642513            0.68265511           0.93227915
=====

```



|    |   |             |               |               |             |
|----|---|-------------|---------------|---------------|-------------|
| 43 | 1 | avKhomeown  | 0.52080275    | 0.74177373    | 0.70210460  |
| 44 | 1 | avKYperm    | 0.22776789    | 0.079494493   | 2.8652033   |
| 45 | 1 | avKliq      | 4.7607541     | 2.2327590     | 2.1322293   |
| 46 | 1 | lsigma      | 2.6888331     | 0.34922629    | 7.6994004   |
| 47 | 1 | Kage        | -0.0064453822 | 0.0057268330  | -1.1254706  |
| 48 | 1 | Ksexmale    | 0.046230420   | 0.041983780   | 1.1011495   |
| 49 | 1 | Knatural    | -0.17130127   | 0.074570766   | -2.2971638  |
| 50 | 1 | Kwrkge30L1  | 0.12008662    | 0.059637801   | 2.0135991   |
| 51 | 1 | Kwrklt30L1  | 0.072407999   | 0.085131039   | 0.85054758  |
| 52 | 1 | KmstatL1    | -0.076310132  | 0.051833367   | -1.4722202  |
| 53 | 1 | KkidsL1     | -0.062496924  | 0.051862178   | -1.2050578  |
| 54 | 1 | K10milesL1  | -0.0043260719 | 0.041389623   | -0.10452069 |
| 55 | 1 | KhomeownL1  | 0.15642011    | 0.048148755   | 3.2486845   |
| 56 | 1 | KYperm      | 0.014296509   | 0.0035376528  | 4.0412414   |
| 57 | 1 | KliqL1      | -0.17530748   | 0.20427572    | -0.85819049 |
| 58 | 1 | FAM_AGE     | -0.0055323425 | 0.0059485617  | -0.93003028 |
| 59 | 1 | FAM_SCHLYRS | -0.027077325  | 0.010124144   | -2.6745299  |
| 60 | 1 | FAM_SEXMALE | 0.0015466278  | 0.096685729   | 0.015996444 |
| 61 | 1 | FAM_RACEBLC | 0.0096272565  | 0.095796612   | 0.10049684  |
| 62 | 1 | FAM_RACEOTH | 0.060011773   | 0.22477074    | 0.26699103  |
| 63 | 1 | FAM_HISPANI | -0.11472450   | 0.18784106    | -0.61075306 |
| 64 | 1 | FAM_USBORN  | 0.096156268   | 0.084018200   | 1.1444695   |
| 65 | 1 | H_rndincL1  | -0.0024366910 | 0.0031261636  | -0.77945090 |
| 66 | 1 | H_rndasstL1 | 0.00019253194 | 0.00035476123 | 0.54270851  |
| 67 | 1 | FAM_hfairL1 | -0.019689780  | 0.12750650    | -0.15442177 |
| 68 | 1 | FAM_hgoodL1 | 0.091003573   | 0.11671922    | 0.77967942  |
| 69 | 1 | FAM_hvgoodL | 0.045537584   | 0.11648838    | 0.39091954  |
| 70 | 1 | FAM_hexcell | 0.052223903   | 0.12060094    | 0.43303066  |
| 71 | 1 | NK3         | 0.18242504    | 0.050393739   | 3.6199942   |
| 72 | 1 | NK4         | 0.24145265    | 0.062858662   | 3.8411994   |
| 73 | 1 | NK5         | 0.085636464   | 0.074755772   | 1.1455499   |
| 74 | 1 | NK6         | 0.058991891   | 0.10101950    | 0.58396537  |
| 75 | 1 | NK7         | 0.14535479    | 0.12112119    | 1.2000773   |
| 76 | 1 | WV3         | -0.018298089  | 0.062305854   | -0.29368169 |
| 77 | 1 | WV4         | 0.076886735   | 0.065908510   | 1.1665676   |
| 78 | 1 | WV5         | 0.10053536    | 0.072204795   | 1.3923641   |
| 79 | 1 | WV6         | 0.16259275    | 0.077459628   | 2.0990645   |
| 91 | 1 | lsig RE in  | 1.0519500     | 0.094080941   | 11.181329   |
| 92 | 1 | lsig RE out | 1.9162408     | 0.047056767   | 40.721897   |
|    |   | avg LL      | -8688.0114    |               |             |

=====

### Sensitivity Analysis: Table 9: non-intact families

file: mb4.res

N families = 995  
 N children = 3099  
 N obs = 14047

Log Likelihood (unscaled) -10875.7268

ESTIMATES (unscaled)

computed using 100 and 100 randomized Halton draws  
 with bases 3 and 5

```
=====
```

| NR | I | name        | estimate   | stderr   | t-value  |
|----|---|-------------|------------|----------|----------|
| 1  |   | 1constant   | -19.022951 | 5.388508 | -3.53028 |
| 2  | 1 | Kage        | 0.026152   | 0.075134 | 0.34807  |
| 3  | 1 | Ksexmale    | -0.922921  | 0.493435 | -1.87040 |
| 4  | 1 | Knatural    | 4.509639   | 1.188030 | 3.79590  |
| 5  | 1 | Kwrkge30L1  | -1.019944  | 0.567792 | -1.79634 |
| 6  | 1 | Kwrklt30L1  | -0.947433  | 0.827815 | -1.14450 |
| 7  | 1 | KmstatL1    | 0.045492   | 0.566262 | 0.08034  |
| 8  | 1 | KkidsL1     | 2.446876   | 0.608715 | 4.01974  |
| 9  | 1 | K10milesL1  | 0.622712   | 0.455157 | 1.36813  |
| 10 | 1 | KhomeownL1  | -2.988172  | 0.520918 | -5.73636 |
| 11 | 1 | KYperm      | -0.524551  | 0.068796 | -7.62469 |
| 12 | 1 | KliqL1      | 1.161398   | 1.483962 | 0.78263  |
| 13 | 1 | FAM_AGE     | 0.018501   | 0.103351 | 0.17902  |
| 14 | 1 | FAM_SCHLYRS | 0.931979   | 0.159168 | 5.85531  |
| 15 | 1 | FAM_SEXMALE | 0.431955   | 1.326398 | 0.32566  |
| 16 | 1 | FAM_RACEBLC | -3.242684  | 1.463595 | -2.21556 |
| 17 | 1 | FAM_RACEOTH | -5.909654  | 3.535545 | -1.67150 |
| 18 | 1 | FAM_HISPANI | -6.390533  | 2.342378 | -2.72823 |
| 19 | 1 | FAM_USBORN  | -5.161183  | 1.415960 | -3.64501 |
| 20 | 1 | H_rndincL1  | 0.079339   | 0.028841 | 2.75089  |
| 21 | 1 | H_rndasstL1 | 0.015903   | 0.004215 | 3.77263  |
| 22 | 1 | FAM_hfairL1 | 0.905534   | 1.288707 | 0.70267  |
| 23 | 1 | FAM_hgoodL1 | 1.012247   | 1.264462 | 0.80054  |
| 24 | 1 | FAM_hvgoodL | 0.781981   | 1.259712 | 0.62076  |
| 25 | 1 | FAM_hexcell | 0.864082   | 1.315839 | 0.65668  |
| 26 | 1 | NK3         | -3.300041  | 0.832319 | -3.96488 |
| 27 | 1 | NK4         | -7.522344  | 1.072071 | -7.01664 |
| 28 | 1 | NK5         | -5.335500  | 1.145529 | -4.65767 |
| 29 | 1 | NK6         | -3.354900  | 1.467772 | -2.28571 |
| 30 | 1 | NK7         | -7.778069  | 1.902922 | -4.08743 |
| 31 | 1 | WV3         | -0.153540  | 0.557684 | -0.27532 |
| 32 | 1 | WV4         | -2.226917  | 0.670829 | -3.31965 |
| 33 | 1 | WV5         | -1.534474  | 0.769382 | -1.99442 |

|    |   |             |           |          |          |
|----|---|-------------|-----------|----------|----------|
| 34 | 1 | WV6         | -1.780470 | 0.924594 | -1.92568 |
| 35 | 1 | avKage      | -0.017696 | 0.130750 | -0.13534 |
| 36 | 1 | avKsex      | 0.668348  | 1.031921 | 0.64767  |
| 37 | 1 | avKnatural  | 2.188026  | 1.280865 | 1.70824  |
| 38 | 1 | avKwrkge30  | 0.779541  | 0.827470 | 0.94208  |
| 39 | 1 | avKwrklt30  | 1.692818  | 1.065980 | 1.58804  |
| 40 | 1 | avKmstat    | -1.476859 | 0.803352 | -1.83837 |
| 41 | 1 | avKkids     | 0.082367  | 0.876768 | 0.09394  |
| 42 | 1 | avK10miles  | 0.432935  | 0.607657 | 0.71247  |
| 43 | 1 | avKhomeown  | -0.451996 | 0.679167 | -0.66552 |
| 44 | 1 | avKYperm    | 0.247672  | 0.070039 | 3.53620  |
| 45 | 1 | avKliq      | 5.172189  | 1.995340 | 2.59213  |
| 46 | 1 | famchg      | -0.024537 | 1.058353 | -0.02318 |
| 47 | 1 | kidchg      | 0.422492  | 1.136274 | 0.37182  |
| 48 | 1 | lsigma      | 2.753205  | 0.314547 | 8.75293  |
| 49 | 1 | Kage        | -0.011142 | 0.005264 | -2.11670 |
| 50 | 1 | Ksexmale    | 0.022432  | 0.037744 | 0.59431  |
| 51 | 1 | Knatural    | -0.179152 | 0.067895 | -2.63867 |
| 52 | 1 | Kwrkge30L1  | 0.132225  | 0.054609 | 2.42131  |
| 53 | 1 | Kwrklt30L1  | 0.159147  | 0.077971 | 2.04112  |
| 54 | 1 | KmstatL1    | -0.088959 | 0.047217 | -1.88404 |
| 55 | 1 | KkidsL1     | -0.072346 | 0.046940 | -1.54125 |
| 56 | 1 | K10milesL1  | -0.008130 | 0.037312 | -0.21791 |
| 57 | 1 | KhomeownL1  | 0.109483  | 0.043978 | 2.48948  |
| 58 | 1 | KYperm      | 0.016093  | 0.003287 | 4.89524  |
| 59 | 1 | KliqL1      | -0.175062 | 0.187191 | -0.93520 |
| 60 | 1 | FAM_AGE     | -0.001060 | 0.005266 | -0.20134 |
| 61 | 1 | FAM_SCHLYRS | -0.030598 | 0.008583 | -3.56498 |
| 62 | 1 | FAM_SEXMALE | -0.015257 | 0.081055 | -0.18823 |
| 63 | 1 | FAM_RACEBLC | -0.026708 | 0.076610 | -0.34863 |
| 64 | 1 | FAM_RACEOTH | 0.071277  | 0.197583 | 0.36074  |
| 65 | 1 | FAM_HISPANI | -0.030530 | 0.152780 | -0.19983 |
| 66 | 1 | FAM_USBORN  | 0.096693  | 0.074672 | 1.29490  |
| 67 | 1 | H_rndincL1  | -0.001907 | 0.003015 | -0.63233 |
| 68 | 1 | H_rndasstL1 | 0.000342  | 0.000331 | 1.03407  |
| 69 | 1 | FAM_hfairL1 | -0.080281 | 0.106593 | -0.75315 |
| 70 | 1 | FAM_hgoodL1 | 0.025128  | 0.099196 | 0.25332  |
| 71 | 1 | FAM_hvgoodL | -0.042381 | 0.098598 | -0.42984 |
| 72 | 1 | FAM_hexcell | -0.026273 | 0.102981 | -0.25512 |
| 73 | 1 | NK3         | 0.153320  | 0.045204 | 3.39172  |
| 74 | 1 | NK4         | 0.199385  | 0.058188 | 3.42655  |
| 75 | 1 | NK5         | 0.071657  | 0.065637 | 1.09172  |
| 76 | 1 | NK6         | 0.072826  | 0.085921 | 0.84759  |
| 77 | 1 | NK7         | 0.166006  | 0.104218 | 1.59287  |
| 78 | 1 | WV3         | 0.006867  | 0.056518 | 0.12150  |
| 79 | 1 | WV4         | 0.080327  | 0.059633 | 1.34702  |

|    |   |            |           |          |          |
|----|---|------------|-----------|----------|----------|
| 80 | 1 | WV5        | 0.076452  | 0.063322 | 1.20735  |
| 81 | 1 | WV6        | 0.121269  | 0.068624 | 1.76715  |
| 82 | 0 | avKage     | 0.000000  | 0.000000 | 0.00000  |
| 83 | 0 | avKsex     | 0.000000  | 0.000000 | 0.00000  |
| 84 | 0 | avKnatural | 0.000000  | 0.000000 | 0.00000  |
| 85 | 0 | avKwrkge30 | 0.000000  | 0.000000 | 0.00000  |
| 86 | 0 | avKwrklt30 | 0.000000  | 0.000000 | 0.00000  |
| 87 | 0 | avKmstat   | 0.000000  | 0.000000 | 0.00000  |
| 88 | 0 | avKkids    | 0.000000  | 0.000000 | 0.00000  |
| 89 | 0 | avK10miles | 0.000000  | 0.000000 | 0.00000  |
| 90 | 0 | avKhomeown | 0.000000  | 0.000000 | 0.00000  |
| 91 | 0 | avKYperm   | 0.000000  | 0.000000 | 0.00000  |
| 92 | 0 | avKliq     | 0.000000  | 0.000000 | 0.00000  |
| 93 | 1 | famchg     | -0.007517 | 0.056560 | -0.13291 |
| 94 | 1 | kidchg     | 0.014381  | 0.066331 | 0.21680  |
| 95 | 1 | sig RE in  | 0.962194  | 0.097267 | 9.89229  |
| 96 | 1 | sig RE out | 1.959851  | 0.042316 | 46.31513 |

=====

### Sensitivity Analysis: Table 9: 3 waves

file: mb5.res

N families = 1056  
 N children = 3330  
 N obs = 6523

Log Likelihood (unscaled) -5812.4583

ESTIMATES (unscaled)

computed using 100 and 100 randomized Halton draws  
 with bases 3 and 5

| ===== |   |            |            |
|-------|---|------------|------------|
| NR    | I | name       |            |
|       |   | estimate   | stderr     |
|       |   |            | t-value    |
| ----- |   |            |            |
| 1     | 1 | constant   | -17.606394 |
| 2     | 1 | Kage       | -0.039260  |
| 3     | 1 | Ksexmale   | -0.686905  |
| 4     | 1 | Knatural   | 2.342683   |
| 5     | 1 | Kwrkge30L1 | -1.405427  |
| 6     | 1 | Kwrklt30L1 | -2.668329  |
| 7     | 1 | KmstatL1   | 1.432456   |
| 8     | 1 | KkidsL1    | 2.391501   |
| 9     | 1 | K10milesL1 | 0.735799   |
| 10    | 1 | KhomeownL1 | -3.223301  |

|    |   |             |           |          |          |
|----|---|-------------|-----------|----------|----------|
| 11 | 1 | KYperm      | -0.899002 | 0.121392 | -7.40578 |
| 12 | 1 | KliqL1      | -0.565459 | 1.639479 | -0.34490 |
| 13 | 1 | FAM_AGE     | 0.126096  | 0.110486 | 1.14128  |
| 14 | 1 | FAM_SCHLYRS | 0.821145  | 0.162780 | 5.04449  |
| 15 | 1 | FAM_SEXMALE | 0.285698  | 1.714617 | 0.16663  |
| 16 | 1 | FAM_RACEBLC | -2.946110 | 1.430623 | -2.05932 |
| 17 | 1 | FAM_RACEOTH | 2.060429  | 2.936584 | 0.70164  |
| 18 | 1 | FAM_HISPANI | 0.032341  | 1.640179 | 0.01972  |
| 19 | 1 | FAM_USBORN  | -4.455865 | 1.294148 | -3.44309 |
| 20 | 1 | H_rndincL1  | 0.198672  | 0.033104 | 6.00137  |
| 21 | 1 | H_rndasstL1 | 0.021544  | 0.003377 | 6.38013  |
| 22 | 1 | FAM_hfairL1 | 2.185210  | 1.636001 | 1.33570  |
| 23 | 1 | FAM_hgoodL1 | 4.390070  | 1.540335 | 2.85007  |
| 24 | 1 | FAM_hvgoodL | 3.420072  | 1.540796 | 2.21968  |
| 25 | 1 | FAM_hexcell | 1.921950  | 1.607762 | 1.19542  |
| 26 | 1 | NK3         | -3.752541 | 0.843796 | -4.44721 |
| 27 | 1 | NK4         | -5.161568 | 0.994132 | -5.19204 |
| 28 | 1 | NK5         | -6.294904 | 1.351488 | -4.65776 |
| 29 | 1 | NK6         | -4.264218 | 1.556290 | -2.73999 |
| 30 | 1 | NK7         | -8.238146 | 1.802391 | -4.57068 |
| 31 | 1 | WV3         | -1.075284 | 0.508158 | -2.11604 |
| 32 | 0 | WV4         | 0.000000  | 0.000000 | 0.00000  |
| 33 | 0 | WV5         | 0.000000  | 0.000000 | 0.00000  |
| 34 | 0 | WV6         | 0.000000  | 0.000000 | 0.00000  |
| 35 | 1 | avKage      | -0.130422 | 0.135556 | -0.96212 |
| 36 | 1 | avKsex      | -0.371628 | 1.079634 | -0.34422 |
| 37 | 1 | avKnatural  | 0.350086  | 1.563780 | 0.22387  |
| 38 | 1 | avKwrkge30  | 1.729731  | 1.145815 | 1.50961  |
| 39 | 1 | avKwrklt30  | 0.761600  | 1.613711 | 0.47196  |
| 40 | 1 | avKmstat    | -0.533009 | 1.062146 | -0.50182 |
| 41 | 1 | avKkids     | 0.331950  | 1.088745 | 0.30489  |
| 42 | 1 | avK10miles  | 0.469023  | 0.810995 | 0.57833  |
| 43 | 1 | avKhomeown  | 0.186156  | 0.904484 | 0.20582  |
| 44 | 1 | avKYperm    | 0.366824  | 0.127867 | 2.86879  |
| 45 | 1 | avKliq      | 0.776462  | 2.052123 | 0.37837  |
| 46 | 1 | lsigma      | 2.341229  | 0.467372 | 5.00935  |
| 47 | 1 | Kage        | -0.000787 | 0.007749 | -0.10157 |
| 48 | 1 | Ksexmale    | 0.005276  | 0.054115 | 0.09749  |
| 49 | 1 | Knatural    | -0.025656 | 0.092447 | -0.27752 |
| 50 | 1 | Kwrkge30L1  | 0.154140  | 0.080889 | 1.90557  |
| 51 | 1 | Kwrklt30L1  | 0.259765  | 0.115287 | 2.25321  |
| 52 | 1 | KmstatL1    | -0.230930 | 0.069562 | -3.31976 |
| 53 | 1 | KkidsL1     | -0.092553 | 0.068272 | -1.35565 |
| 54 | 1 | K10milesL1  | -0.028516 | 0.055187 | -0.51672 |
| 55 | 1 | KhomeownL1  | 0.177730  | 0.065439 | 2.71596  |
| 56 | 1 | KYperm      | 0.024699  | 0.007811 | 3.16189  |

|    |   |             |           |          |          |
|----|---|-------------|-----------|----------|----------|
| 57 | 1 | KliqL1      | -0.101678 | 0.191210 | -0.53176 |
| 58 | 1 | FAM_AGE     | -0.004990 | 0.007661 | -0.65128 |
| 59 | 1 | FAM_SCHLYRS | -0.031972 | 0.012241 | -2.61185 |
| 60 | 1 | FAM_SEXMALE | -0.128753 | 0.116811 | -1.10223 |
| 61 | 1 | FAM_RACEBLC | 0.084581  | 0.101245 | 0.83541  |
| 62 | 1 | FAM_RACEOTH | -0.234238 | 0.280405 | -0.83535 |
| 63 | 1 | FAM_HISPANI | -0.452529 | 0.188710 | -2.39801 |
| 64 | 1 | FAM_USBORN  | 0.039394  | 0.111826 | 0.35228  |
| 65 | 1 | H_rndincL1  | -0.007686 | 0.004441 | -1.73069 |
| 66 | 1 | H_rndasstL1 | -0.001196 | 0.000478 | -2.50367 |
| 67 | 1 | FAM_hfairL1 | 0.106078  | 0.172094 | 0.61639  |
| 68 | 1 | FAM_hgoodL1 | 0.079185  | 0.153886 | 0.51457  |
| 69 | 1 | FAM_hvgoodL | 0.068965  | 0.154583 | 0.44613  |
| 70 | 1 | FAM_hexcell | 0.212033  | 0.160050 | 1.32479  |
| 71 | 1 | NK3         | 0.236307  | 0.067630 | 3.49413  |
| 72 | 1 | NK4         | 0.211768  | 0.076521 | 2.76745  |
| 73 | 1 | NK5         | 0.103996  | 0.098857 | 1.05198  |
| 74 | 1 | NK6         | 0.202351  | 0.116457 | 1.73757  |
| 75 | 1 | NK7         | 0.329782  | 0.114294 | 2.88539  |
| 76 | 1 | WV3         | 0.158100  | 0.063433 | 2.49240  |
| 77 | 0 | WV4         | 0.000000  | 0.000000 | 0.00000  |
| 78 | 0 | WV5         | 0.000000  | 0.000000 | 0.00000  |
| 79 | 0 | WV6         | 0.000000  | 0.000000 | 0.00000  |
| 80 | 0 | avKage      | 0.000000  | 0.000000 | 0.00000  |
| 81 | 0 | avKsex      | 0.000000  | 0.000000 | 0.00000  |
| 82 | 0 | avKnatural  | 0.000000  | 0.000000 | 0.00000  |
| 83 | 0 | avKwrkge30  | 0.000000  | 0.000000 | 0.00000  |
| 84 | 0 | avKwrklt30  | 0.000000  | 0.000000 | 0.00000  |
| 85 | 0 | avKmstat    | 0.000000  | 0.000000 | 0.00000  |
| 86 | 0 | avKkids     | 0.000000  | 0.000000 | 0.00000  |
| 87 | 0 | avK10miles  | 0.000000  | 0.000000 | 0.00000  |
| 88 | 0 | avKhomeown  | 0.000000  | 0.000000 | 0.00000  |
| 89 | 0 | avKYperm    | 0.000000  | 0.000000 | 0.00000  |
| 90 | 0 | avKliq      | 0.000000  | 0.000000 | 0.00000  |
| 91 | 1 | lsig RE in  | 0.846979  | 0.181881 | 4.65678  |
| 92 | 1 | lsig RE out | 1.937962  | 0.046133 | 42.00796 |

=====

### Sensitivity Analysis: Table 9: ex individual children

file: mb6.res

N families = 4210  
 N children = 14187  
 N obs = 58045

Log Likelihood (unscaled) -44448.6973

ESTIMATES (unscaled)

computed using 100 and 100 randomized Halton draws  
with bases 3 and 5

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```

| NR | I | name        | estimate   | stderr   | t-value   |
|----|---|-------------|------------|----------|-----------|
| 1  |   | 1constant   | -11.123731 | 2.338898 | -4.75597  |
| 2  | 1 | Kage        | -0.168424  | 0.032751 | -5.14255  |
| 3  | 1 | Ksexmale    | -0.658512  | 0.236005 | -2.79025  |
| 4  | 1 | Knatural    | 4.237201   | 0.489185 | 8.66175   |
| 5  | 1 | Kwrkge30L1  | -0.631109  | 0.272720 | -2.31413  |
| 6  | 1 | Kwrklt30L1  | 0.051966   | 0.367977 | 0.14122   |
| 7  | 1 | KmstatL1    | -0.566565  | 0.257963 | -2.19631  |
| 8  | 1 | KkidsL1     | 2.049111   | 0.267062 | 7.67280   |
| 9  | 1 | K10milesL1  | 0.937246   | 0.209312 | 4.47774   |
| 10 | 1 | KhomeownL1  | -2.072582  | 0.246587 | -8.40506  |
| 11 | 1 | KYperm      | -0.587858  | 0.039795 | -14.77230 |
| 12 | 1 | KliqL1      | -0.177775  | 0.867201 | -0.20500  |
| 13 | 1 | FAM_AGE     | 0.061823   | 0.040405 | 1.53009   |
| 14 | 1 | FAM_SCHLYRS | 1.026943   | 0.068588 | 14.97272  |
| 15 | 1 | FAM_SEXMALE | 0.118195   | 0.651738 | 0.18135   |
| 16 | 1 | FAM_RACEBLC | -2.329611  | 0.469622 | -4.96061  |
| 17 | 1 | FAM_RACEOTH | -1.195961  | 1.046175 | -1.14318  |
| 18 | 1 | FAM_HISPANI | -4.138262  | 0.817693 | -5.06090  |
| 19 | 1 | FAM_USBORN  | -1.282449  | 0.585414 | -2.19067  |
| 20 | 1 | H_rndincL1  | 0.066479   | 0.012350 | 5.38272   |
| 21 | 1 | H_rndasstL1 | 0.011826   | 0.001970 | 6.00309   |
| 22 | 1 | FAM_hfairL1 | 0.569799   | 0.605977 | 0.94030   |
| 23 | 1 | FAM_hgoodL1 | 0.489944   | 0.588669 | 0.83229   |
| 24 | 1 | FAM_hvgoodL | 0.911988   | 0.589973 | 1.54581   |
| 25 | 1 | FAM_hexcell | 0.595397   | 0.618760 | 0.96224   |
| 26 | 1 | NK3         | -3.408476  | 0.412612 | -8.26074  |
| 27 | 1 | NK4         | -5.072801  | 0.450604 | -11.25777 |
| 28 | 1 | NK5         | -6.777105  | 0.541425 | -12.51716 |
| 29 | 1 | NK6         | -8.380323  | 0.666203 | -12.57923 |
| 30 | 1 | NK7         | -8.875520  | 0.587601 | -15.10467 |
| 31 | 1 | WV3         | -0.395287  | 0.271639 | -1.45519  |
| 32 | 1 | WV4         | -0.953353  | 0.295834 | -3.22259  |
| 33 | 1 | WV5         | -0.921279  | 0.341990 | -2.69387  |
| 34 | 1 | WV6         | -1.589974  | 0.408562 | -3.89163  |
| 35 | 1 | avKage      | -0.119941  | 0.045743 | -2.62205  |
| 36 | 1 | avKsex      | -0.125573  | 0.407136 | -0.30843  |
| 37 | 1 | avKnatural  | -1.165908  | 0.544523 | -2.14115  |

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|    |   |             |           |          |          |
|----|---|-------------|-----------|----------|----------|
| 38 | 1 | avKwrkge30  | 0.143800  | 0.374888 | 0.38358  |
| 39 | 1 | avKwrklt30  | 0.390466  | 0.506558 | 0.77082  |
| 40 | 1 | avKmstat    | -1.301033 | 0.336832 | -3.86256 |
| 41 | 1 | avKkids     | 0.046406  | 0.371214 | 0.12501  |
| 42 | 1 | avK10miles  | 0.336879  | 0.263865 | 1.27671  |
| 43 | 1 | avKhomeown  | 0.153334  | 0.290469 | 0.52788  |
| 44 | 1 | avKYperm    | 0.309171  | 0.036420 | 8.48910  |
| 45 | 1 | avKliq      | 2.757172  | 0.874823 | 3.15169  |
| 46 | 1 | famchg      | 0.620556  | 0.409495 | 1.51542  |
| 47 | 1 | kidchg      | 1.152234  | 0.396316 | 2.90737  |
| 48 | 1 | lsigma      | 2.193799  | 0.139148 | 15.76590 |
| 49 | 1 | Kage        | 0.003571  | 0.002318 | 1.54045  |
| 50 | 1 | Ksexmale    | 0.013444  | 0.017935 | 0.74957  |
| 51 | 1 | Knatural    | -0.072351 | 0.030362 | -2.38293 |
| 52 | 1 | Kwrkge30L1  | 0.037635  | 0.025314 | 1.48671  |
| 53 | 1 | Kwrklt30L1  | 0.004587  | 0.036597 | 0.12533  |
| 54 | 1 | KmstatL1    | -0.016303 | 0.022189 | -0.73475 |
| 55 | 1 | KkidsL1     | -0.052859 | 0.021830 | -2.42145 |
| 56 | 1 | K10milesL1  | -0.022847 | 0.018047 | -1.26599 |
| 57 | 1 | KhomeownL1  | 0.033855  | 0.021186 | 1.59797  |
| 58 | 1 | KYperm      | 0.015686  | 0.001889 | 8.30439  |
| 59 | 1 | KliqL1      | -0.033205 | 0.093627 | -0.35465 |
| 60 | 1 | FAM_AGE     | -0.001939 | 0.002234 | -0.86801 |
| 61 | 1 | FAM_SCHLYRS | -0.021335 | 0.003876 | -5.50359 |
| 62 | 1 | FAM_SEXMALE | 0.001073  | 0.039785 | 0.02698  |
| 63 | 1 | FAM_RACEBLC | 0.036233  | 0.028438 | 1.27410  |
| 64 | 1 | FAM_RACEOTH | 0.091098  | 0.062077 | 1.46749  |
| 65 | 1 | FAM_HISPANI | 0.076915  | 0.047613 | 1.61540  |
| 66 | 1 | FAM_USBORN  | 0.010039  | 0.035513 | 0.28269  |
| 67 | 1 | H_rndincL1  | -0.000459 | 0.001171 | -0.39179 |
| 68 | 1 | H_rndasstL1 | 0.000407  | 0.000097 | 4.20598  |
| 69 | 1 | FAM_hfairL1 | 0.010346  | 0.049788 | 0.20781  |
| 70 | 1 | FAM_hgoodL1 | 0.056265  | 0.046421 | 1.21205  |
| 71 | 1 | FAM_hvgoodL | 0.027871  | 0.046317 | 0.60175  |
| 72 | 1 | FAM_hexcell | 0.047369  | 0.048793 | 0.97082  |
| 73 | 1 | NK3         | 0.134168  | 0.025895 | 5.18126  |
| 74 | 1 | NK4         | 0.145410  | 0.027623 | 5.26406  |
| 75 | 1 | NK5         | 0.173426  | 0.031952 | 5.42768  |
| 76 | 1 | NK6         | 0.212606  | 0.036979 | 5.74942  |
| 77 | 1 | NK7         | 0.152292  | 0.034008 | 4.47814  |
| 78 | 1 | WV3         | -0.054725 | 0.027819 | -1.96717 |
| 79 | 1 | WV4         | -0.092434 | 0.029214 | -3.16408 |
| 80 | 1 | WV5         | -0.030250 | 0.030128 | -1.00404 |
| 81 | 1 | WV6         | 0.008131  | 0.032501 | 0.25016  |
| 82 | 0 | avKage      | 0.000000  | 0.000000 | 0.00000  |
| 83 | 0 | avKsex      | 0.000000  | 0.000000 | 0.00000  |



|    |   |            |           |          |          |
|----|---|------------|-----------|----------|----------|
| 84 | 0 | avKnatural | 0.000000  | 0.000000 | 0.000000 |
| 85 | 0 | avKwrkge30 | 0.000000  | 0.000000 | 0.000000 |
| 86 | 0 | avKwrklt30 | 0.000000  | 0.000000 | 0.000000 |
| 87 | 0 | avKmstat   | 0.000000  | 0.000000 | 0.000000 |
| 88 | 0 | avKkids    | 0.000000  | 0.000000 | 0.000000 |
| 89 | 0 | avK10miles | 0.000000  | 0.000000 | 0.000000 |
| 90 | 0 | avKhomeown | 0.000000  | 0.000000 | 0.000000 |
| 91 | 0 | avKYperm   | 0.000000  | 0.000000 | 0.000000 |
| 92 | 0 | avKliq     | 0.000000  | 0.000000 | 0.000000 |
| 93 | 1 | famchg     | -0.008932 | 0.024554 | -0.36376 |
| 94 | 1 | kidchg     | -0.012497 | 0.023682 | -0.52768 |
| 95 | 1 | sig RE in  | 1.043002  | 0.040602 | 25.68861 |
| 96 | 1 | sig RE out | 1.883191  | 0.020738 | 90.81085 |

=====  
**Sensitivity Analysis: Table 9: inc one-child families**

file: mb7.res

N families = 864  
N children = 2360  
N obs = 11432

Log Likelihood (unscaled) -9237.6912

ESTIMATES (unscaled)

computed using 100 and 100 randomized Halton draws  
with bases 3 and 5

=====  
-----

| NR | I | name        | estimate   | stderr   | t-value  |
|----|---|-------------|------------|----------|----------|
| 1  |   | 1constant   | -14.031389 | 5.565358 | -2.52120 |
| 2  | 1 | Kage        | 0.000579   | 0.081998 | 0.00706  |
| 3  | 1 | Ksexmale    | -1.178073  | 0.542896 | -2.16998 |
| 4  | 1 | Knatural    | 3.660571   | 1.310218 | 2.79386  |
| 5  | 1 | Kwrkge30L1  | -0.175725  | 0.609896 | -0.28812 |
| 6  | 1 | Kwrklt30L1  | 0.489847   | 0.815147 | 0.60093  |
| 7  | 1 | KmstatL1    | -0.592358  | 0.585986 | -1.01087 |
| 8  | 1 | KkidsL1     | 2.895504   | 0.648777 | 4.46302  |
| 9  | 1 | K10milesL1  | 0.548327   | 0.474088 | 1.15659  |
| 10 | 1 | KhomeownL1  | -2.891456  | 0.536232 | -5.39217 |
| 11 | 1 | KYperm      | -0.552064  | 0.075934 | -7.27031 |
| 12 | 1 | KliqL1      | 1.402088   | 1.220481 | 1.14880  |
| 13 | 1 | FAM_AGE     | 0.111855   | 0.101898 | 1.09771  |
| 14 | 1 | FAM_SCHLYRS | 0.814954   | 0.156311 | 5.21366  |

|    |   |             |            |          |          |
|----|---|-------------|------------|----------|----------|
| 15 | 1 | FAM_SEXMALE | -0.401176  | 1.386345 | -0.28938 |
| 16 | 1 | FAM_RACEBLC | -2.653316  | 1.254445 | -2.11513 |
| 17 | 1 | FAM_RACEOTH | -4.050133  | 3.626308 | -1.11688 |
| 18 | 1 | FAM_HISPANI | -1.607417  | 2.330479 | -0.68974 |
| 19 | 1 | FAM_USBORN  | -5.964738  | 1.220843 | -4.88575 |
| 20 | 1 | H_rndincL1  | 0.104188   | 0.026207 | 3.97564  |
| 21 | 1 | H_rndasstL1 | 0.017743   | 0.004073 | 4.35625  |
| 22 | 1 | FAM_hfairL1 | 0.805977   | 1.252695 | 0.64339  |
| 23 | 1 | FAM_hgoodL1 | 1.323745   | 1.218099 | 1.08673  |
| 24 | 1 | FAM_hvgoodL | 1.280746   | 1.214838 | 1.05425  |
| 25 | 1 | FAM_hexcell | 0.124935   | 1.286340 | 0.09712  |
| 26 | 1 | NK2         | -2.667971  | 0.984973 | -2.70867 |
| 27 | 1 | NK3         | -7.127662  | 1.122893 | -6.34759 |
| 28 | 1 | NK4         | -10.500461 | 1.308203 | -8.02663 |
| 29 | 1 | NK5         | -8.011241  | 1.435738 | -5.57988 |
| 30 | 1 | NK6         | -8.005645  | 1.674027 | -4.78227 |
| 31 | 1 | NK7         | -12.516016 | 3.554845 | -3.52083 |
| 32 | 1 | WV3         | -0.313595  | 0.557045 | -0.56296 |
| 33 | 1 | WV4         | -2.400588  | 0.679791 | -3.53136 |
| 34 | 1 | WV5         | -2.362900  | 0.809286 | -2.91973 |
| 35 | 1 | WV6         | -2.619139  | 0.948880 | -2.76024 |
| 36 | 1 | avKage      | -0.082649  | 0.119732 | -0.69028 |
| 37 | 1 | avKsex      | 0.376834   | 0.948511 | 0.39729  |
| 38 | 1 | avKnatural  | 1.031498   | 1.539099 | 0.67020  |
| 39 | 1 | avKwrkge30  | 0.141900   | 0.781174 | 0.18165  |
| 40 | 1 | avKwrklt30  | 0.734653   | 1.008150 | 0.72871  |
| 41 | 1 | avKmstat    | -1.407162  | 0.762120 | -1.84638 |
| 42 | 1 | avKkids     | -0.328957  | 0.857888 | -0.38345 |
| 43 | 1 | avK10miles  | 0.863523   | 0.595841 | 1.44925  |
| 44 | 1 | avKhomeown  | -0.399188  | 0.590908 | -0.67555 |
| 45 | 1 | avKYperm    | 0.266804   | 0.074033 | 3.60388  |
| 46 | 1 | avKliq      | 3.088313   | 1.681416 | 1.83673  |
| 47 | 1 | lsigma      | 2.535135   | 0.342601 | 7.39968  |
| 48 | 1 | Kage        | -0.008379  | 0.005485 | -1.52755 |
| 49 | 1 | Ksexmale    | 0.058745   | 0.039990 | 1.46900  |
| 50 | 1 | Knatural    | -0.168076  | 0.073240 | -2.29488 |
| 51 | 1 | Kwrkge30L1  | 0.056573   | 0.056540 | 1.00058  |
| 52 | 1 | Kwrklt30L1  | 0.012424   | 0.082867 | 0.14993  |
| 53 | 1 | KmstatL1    | -0.032695  | 0.049674 | -0.65818 |
| 54 | 1 | KkidsL1     | -0.103272  | 0.049906 | -2.06934 |
| 55 | 1 | K10milesL1  | -0.008648  | 0.040107 | -0.21563 |
| 56 | 1 | KhomeownL1  | 0.119629   | 0.047302 | 2.52904  |
| 57 | 1 | KYperm      | 0.015973   | 0.003442 | 4.64057  |
| 58 | 1 | KliqL1      | -0.371594  | 0.208371 | -1.78333 |
| 59 | 1 | FAM_AGE     | -0.003081  | 0.005677 | -0.54276 |
| 60 | 1 | FAM_SCHLYRS | -0.027133  | 0.009801 | -2.76827 |

|    |   |             |           |          |          |
|----|---|-------------|-----------|----------|----------|
| 61 | 1 | FAM_SEXMALE | 0.005879  | 0.094974 | 0.06190  |
| 62 | 1 | FAM_RACEBLC | 0.001420  | 0.083514 | 0.01701  |
| 63 | 1 | FAM_RACEOTH | 0.009688  | 0.221641 | 0.04371  |
| 64 | 1 | FAM_HISPANI | -0.117090 | 0.177777 | -0.65863 |
| 65 | 1 | FAM_USBORN  | 0.118430  | 0.079002 | 1.49908  |
| 66 | 1 | H_rndincL1  | -0.001583 | 0.002916 | -0.54263 |
| 67 | 1 | H_rndasstL1 | 0.000039  | 0.000347 | 0.11161  |
| 68 | 1 | FAM_hfairL1 | 0.018073  | 0.120220 | 0.15033  |
| 69 | 1 | FAM_hgoodL1 | 0.122755  | 0.109831 | 1.11768  |
| 70 | 1 | FAM_hvgoodL | 0.034580  | 0.109495 | 0.31581  |
| 71 | 1 | FAM_hexcell | 0.111901  | 0.113800 | 0.98331  |
| 72 | 1 | NK2         | 0.089659  | 0.075702 | 1.18436  |
| 73 | 1 | NK3         | 0.280197  | 0.079247 | 3.53573  |
| 74 | 1 | NK4         | 0.289452  | 0.089141 | 3.24714  |
| 75 | 1 | NK5         | 0.167590  | 0.096390 | 1.73866  |
| 76 | 1 | NK6         | 0.179347  | 0.115581 | 1.55170  |
| 77 | 1 | NK7         | 0.282987  | 0.134060 | 2.11090  |
| 78 | 1 | WV3         | 0.015599  | 0.059713 | 0.26123  |
| 79 | 1 | WV4         | 0.095639  | 0.063582 | 1.50418  |
| 80 | 1 | WV5         | 0.118160  | 0.068983 | 1.71290  |
| 81 | 1 | WV6         | 0.158243  | 0.074113 | 2.13515  |
| 82 | 0 | avKage      | 0.000000  | 0.000000 | 0.00000  |
| 83 | 0 | avKsex      | 0.000000  | 0.000000 | 0.00000  |
| 84 | 0 | avKnatural  | 0.000000  | 0.000000 | 0.00000  |
| 85 | 0 | avKwrkge30  | 0.000000  | 0.000000 | 0.00000  |
| 86 | 0 | avKwrklt30  | 0.000000  | 0.000000 | 0.00000  |
| 87 | 0 | avKmstat    | 0.000000  | 0.000000 | 0.00000  |
| 88 | 0 | avKkids     | 0.000000  | 0.000000 | 0.00000  |
| 89 | 0 | avK10miles  | 0.000000  | 0.000000 | 0.00000  |
| 90 | 0 | avKhomeown  | 0.000000  | 0.000000 | 0.00000  |
| 91 | 0 | avKYperm    | 0.000000  | 0.000000 | 0.00000  |
| 92 | 0 | avKliq      | 0.000000  | 0.000000 | 0.00000  |
| 93 | 1 | sig RE in   | 1.014614  | 0.096949 | 10.46546 |
| 94 | 1 | sig RE out  | 1.881848  | 0.042312 | 44.47535 |

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