model2 run.log Page 1

```
[LEMDA, PHI]: [0.93000000000005, 0.59999999999999981
mu0: array([-0.99437209, -1.11730233])
mul: array([ 1.04922807, 0.98085965])
sigma0:
matrix([[
       0.30811884,
                 0.28553768]
      0.28553768, 0.81346635]])
sigma1:
matrix([[ 0.77827888,
                0.19683566],
> 0.5
Precint ID
           |P(Yi=1/Xi)|
1
           5.60366645891e-18
                           [False]
2
            6.2031046024e-19
                           [False]
           0.99999999993
3
                           [ True]
                           [False]
4
           4.34419898048e-14
5
           1.0
                           [ True]
6
           5.34552604506e-13
                           [False]
7
           2.29545378852e-16
                           [False]
           3.98029152894e-17
8
                           [False]
           2.00682163441e-17
9
                           [False]
10
           6.94086294021e-19
                           [False]
                           [ True]
11
           0.99999999973
12
           0.99999998485
                             True
13
           1.0
                             True ]
           1.61069042107e-15
                           [False]
14
15
           1.30887773713e-10
                           [False]
16
           0.99999999996
                             True ]
17
           1.0
                             True]
           2.4318533552e-17
18
                           [False]
19
           1.80363773081e-18
                           [False]
20
           1.7510108321e-16
                           [False]
21
           1.0
                           [ True]
           6.31115083302e-20
22
                           [False]
            4.74794916388e-11
23
                           [False]
24
           0.99999999982
                           [ True]
25
           1.23444731815e-14
                           [False]
           0.99999999619
26
                           [ True]
27
           1.0
                             Truel
28
           1.0
                            Truel
           6.74091564912e-19
29
                           [False]
30
           0.99999999999
                           [ True]
                           [False]
31
           1.13886031747e-21
           2.08641888471e-17
32
                           [False]
33
           4.28717114022e-16
                           [False]
34
           0.99999999999
                           [ True]
35
           2.73912039203e-15
                           [False]
36
           0.999999999999
                            [ True]
37
           2.59266231402e-17
                           [False]
           1.0
38
                           [ True]
39
           1.0
                             True]
           1.06476329399e-13
40
                           [False]
41
           1.0
                           [ True]
           2.14768178866e-13
42
                           [False]
           9.28305982104e-18
                           [False]
43
44
           1.0
                            Truel
           1.20784095405e-14
                           [False]
45
46
           0.99999999448
                           [ True]
           2.00507470188e-11
47
                           [False]
48
           1.0
                           [ True]
           3.7739524431e-11
49
                           [False]
50
           0.99993853638
                           [ True]
```

model2 run.log Page 2

```
[LEMDA, PHI]: [0.9301469242696434, 0.60233145200175731]
mu0: array([-1.04936988, -1.03332657])
mu1: array([ 0.98451987,  0.99519058])
sigma0:
matrix([[ 0.35681027, 0.3036751 ],
      [ 0.3036751 , 0.74589374]])
sigma1:
matrix([[ 0.72176171, 0.14500171]
                 0.30932743]])
      [ 0.14500171,
############ END
                       |> 0.5
Precint ID
            P(Yi=1/Xi)
             5.06074182779e-18
1
                              [False]
2
             2.64612036147e-19
                              [False]
             0.9999999999
3
                              [ True]
4
             8.00971463296e-14
                              [False]
5
             1.0
                              [ True]
                              [False]
6
             5.05116397725e-13
             1.51114611496e-16
7
                              [False]
8
             7.90400905718e-17
                              [False]
9
             3.25933738811e-17
                              [False]
             1.10662061533e-18
10
                              [False]
             0.99999999981
                              [ True]
11
12
             0.999999999422
                              [ True]
13
             1.0
                              [ True]
14
             1.8805163937e-15
                              [False]
             9.74343975335e-11
15
                              [False]
             0.99999999997
16
                              [ True]
                              [ True]
17
             1.0
18
             2.75527774148e-17
                              [False]
             4.99771861314e-19
19
                              [False]
             1.06410152267e-16
20
                              [False]
2.1
             1.0
                              [ True]
             7.79750263758e-20
                              [False]
22
23
             4.19323093329e-11
                              [False]
                              [ True]
2.4
             0.99999999987
25
             1.23322656607e-14
                              [False]
             0.99999999664
26
                              [ True]
27
             1.0
                               True
28
             1.0
                               True]
             7.8222308292e-19
                              [False]
29
30
             1.0
                              [ True]
             1.11659752926e-21
31
                              [False]
32
             5.26732050637e-17
                              [False]
             7.64907107391e-16
33
                              [False]
34
             0.99999999996
                              [ True]
35
             1.56129611226e-15
                              [False]
36
             0.99999999999
                              [ True]
37
             2.06320202536e-17
                              [False]
                              [ True]
38
             1.0
39
             1.0
                               Truel
             1.70065464022e-13
40
                              [False]
41
             1.0
                              [ True]
             2.46205001567e-14
42
                              [False]
43
             1.25035335584e-17
                              [False]
44
             1.0
                              [ True]
45
             5.93980614135e-15
                              [False]
46
             0.99999999702
                               Truel
47
             3.73641328647e-11
                              [False]
48
             1.0
                              [ True]
             2.74623230594e-11
49
                              [False]
                             [ True]
             0.999974967461
```

[LEMDA, PHI]: [0.84551467692988858, 0.61713733140527405]

model2\_run.log Page 3