```
In [1]: include("/home/nicole/Jupyter/SSBRnoJ/src/SSBR.jl")
         using SSBR
 In [2]: function getPos(ped,IDs)
             posAi = Array(Int64, size(IDs, 1))
             for (i,id) = enumerate(IDs[:,1])
                 posAi[i] = ped.idMap[id].seqID
             end
             return posAi
         end
 Out[2]: getPos (generic function with 1 method)
In [3]: ; cd Data/0.5g2k/G/8
         /home/nicole/Jupyter/JG3/Data/0.5g2k/G/8
 In [4]:
         ;ls
         GenNF.txt
         PedAll.txt
         Phe.txt
         PheAll.txt
 In [5]: ;awk '{print $1}' PedAll.txt | sort -b > all.ID
 In [6]: ;awk '{print $1}' GenNF.txt | sort -b > genotype.ID
         ; join -v1 all.ID genotype.ID > noGenotype.ID
In [8]: ;awk '{print $1,$2}' Phe.txt > sim.phenotype
In [9]: ;awk '{print $1,$3}' PheAll.txt > sim.bv
In [10]: ; awk 'NR >=1 && NR <=8000 {print $1}' PedAll.txt | sort -b > G0.ID
In [11]: ; awk 'NR >=8001 && NR <=16000 {print $1}' PedAll.txt | sort -b > G1.ID
```

```
In [12]: ; awk 'NR >=16001 && NR <=24000 {print $1}' PedAll.txt | sort -b > G2.ID
In [13]: ; awk 'NR >=24001 && NR <=32000 {print $1}' PedAll.txt | sort -b > G3.ID
In [14]: ; awk 'NR >=32001 && NR <=40000 {print $1}' PedAll.txt | sort -b > G4.ID
In [15]: | ; awk 'NR >=40001 && NR <=48000 {print $1}' PedAll.txt | sort -b > G5.ID
In [16]: ;join GO.ID genotype.ID > GO.Genotype.ID
In [17]: | ;join G1.ID genotype.ID > G1.Genotype.ID
In [18]: |;join G2.ID genotype.ID > G2.Genotype.ID
In [19]: ;join G3.ID genotype.ID > G3.Genotype.ID
In [20]: ;join G4.ID genotype.ID > G4.Genotype.ID
In [21]: ;join G5.ID genotype.ID > G5.Genotype.ID
In [22]: ;join -v1 G0.ID genotype.ID > G0.noGenotype.ID
        ; join -v1 G1.ID genotype.ID > G1.noGenotype.ID
In [23]:
In [24]: ;join -v1 G2.ID genotype.ID > G2.noGenotype.ID
In [25]: ;join -v1 G3.ID genotype.ID > G3.noGenotype.ID
In [26]: ;join -v1 G4.ID genotype.ID > G4.noGenotype.ID
In [27]: | ;join -v1 G5.ID genotype.ID > G5.noGenotype.ID
```

```
;wc G0.Genotype.ID;wc G1.Genotype.ID;wc G2.Genotype.ID;wc G3.Genotype.ID;wc G4.Genotype.ID;wc G5.Genotype
In [28]:
          200 200 1200 GO.Genotype.ID
          200 200 1200 G1.Genotype.ID
          200 200 1200 G2.Genotype.ID
          200 200 1200 G3.Genotype.ID
          200 200 1200 G4.Genotype.ID
          8000 8000 48000 G5.Genotype.ID
In [29]:
         ;wc G0.noGenotype.ID;wc G1.noGenotype.ID;wc G2.noGenotype.ID;wc G3.noGenotype.ID;wc G4.noGenotype.ID;wc G
          7800 7800 46800 GO.noGenotype.ID
          7800 7800 46800 Gl.noGenotype.ID
          7800 7800 46800 G2.noGenotype.ID
          7800 7800 46800 G3.noGenotype.ID
          7800 7800 46800 G4.noGenotype.ID
         0 0 0 G5.noGenotype.ID
In [30]:
         ped,A Mats,numSSBayes = calc Ai("PedAll.txt", "genotype.ID", calculateInbreeding=false)
         nothing
         y_Vecs = make_yVecs("sim.phenotype",ped,numSSBayes)
         Z_Mats = make_ZMats(ped,y_Vecs,numSSBayes)
         nothing
         vG
                = 0.719
In [31]:
                = 0.719
         vRes
         aHat3=SSBR.PBLUP(y Vecs, Z Mats, A Mats, numSSBayes, vRes, vG);
In [32]: using DataFrames
In [33]: df = readtable("sim.bv", eltypes =[UTF8String, Float64], separator = ' ',header=false)
         a = Array(Float64, numSSBayes.num ped)
         for (i,ID) in enumerate(df[:,1])
             j = ped.idMap[ID].seqID
             a[j] = df[i,2]
         end
```

```
In [34]: IDs = readtable("all.ID", eltypes =[UTF8String], separator = ' ',header=false)
         posAi = getPos(ped,IDs)
         cor1 = cor(a[posAi],aHat3[posAi])[1,1]
         reg1 = linreg(aHat3[posAi], a[posAi])[2,1]
         @printf("SSBRJC from Gibbs - all.ID : correlation = %6.3f\n", cor1 ) # with epsilon
         @printf("SSBRJC from Gibbs - all.ID : regression of TBV on GEBV = %6.3f\n", reg1)
         JCAll = cor1
         SSBRJC from Gibbs - all.ID : correlation = 0.881
         SSBRJC from Gibbs - all.ID : regression of TBV on GEBV = 0.975
Out[34]: 0.881349285634161
In [35]: TBV = a[posAi]
         mean(TBV)
Out[35]: 32.24532485416666
In [36]: EBV = aHat3[posAi]
         mean(EBV)
Out[36]: 1.316432796934621
In [37]: IDs = readtable("genotype.ID", eltypes =[UTF8String], separator = ' ',header=false)
         posAi = getPos(ped,IDs)
         cor2 = cor(a[posAi],aHat3[posAi])[1,1]
         reg2 = linreg(aHat3[posAi], a[posAi])[2,1]
         @printf("SSBRJC from Gibbs - genotype.ID : correlation = %6.3f\n", cor2 ) # with epsilon
         @printf("SSBRJC from Gibbs - genotype.ID : regression of TBV on GEBV = %6.3f\n", reg2)
         JCAll = cor2
         SSBRJC from Gibbs - genotype.ID : correlation = 0.559
         SSBRJC from Gibbs - genotype.ID : regression of TBV on GEBV = 0.984
Out[37]: 0.559210384128551
In [38]: TBV = a[posAi]
         mean(TBV)
Out[38]: 33.42483433333333
```

```
In [39]: EBV = aHat3[posAi]
         mean(EBV)
Out[39]: 2.555241766711551
In [40]: IDs = readtable("noGenotype.ID", eltypes =[UTF8String], separator = ' ',header=false)
         posAi = getPos(ped,IDs)
         cor3 = cor(a[posAi],aHat3[posAi])[1,1]
         reg3 = linreg(aHat3[posAi], a[posAi])[2,1]
         @printf("SSBRJC from Gibbs - noGenotype.ID : correlation = %6.3f\n", cor3 ) # with epsilon
         @printf("SSBRJC from Gibbs - noGenotype.ID : regression of TBV on GEBV = %6.3f\n", reg3)
         JCAll = cor3
         SSBRJC from Gibbs - noGenotype.ID : correlation = 0.870
         SSBRJC from Gibbs - noGenotype.ID : regression of TBV on GEBV = 0.986
Out[40]: 0.870196895501989
In [41]: TBV = a[posAi]
         mean(TBV)
Out[41]: 31.973130358974355
In [42]: EBV = aHat3[posAi]
         mean(EBV)
Out[42]: 1.030553803909176
In [43]: IDs = readtable("G0.ID", eltypes =[UTF8String], separator = ' ',header=false)
         posAi = getPos(ped,IDs)
         cor4 = cor(a[posAi],aHat3[posAi])[1,1]
         reg4 = linreg(aHat3[posAi], a[posAi])[2,1]
         @printf("SSBRJC from Gibbs - G0.ID : correlation = %6.3f\n", cor4 ) # with epsilon
         @printf("SSBRJC from Gibbs - G0.ID : regression of TBV on GEBV = %6.3f\n", req4)
         JCAll = cor4
         SSBRJC from Gibbs - G0.ID : correlation = 0.720
         SSBRJC from Gibbs - G0.ID: regression of TBV on GEBV = 0.891
Out[43]: 0.7202399146592599
```

```
In [44]: TBV = a[posAi]
         mean(TBV)
Out[44]: 30.945693749999997
In [45]: EBV = aHat3[posAi]
         mean(EBV)
Out[45]: -0.001035175188089128
In [46]: IDs = readtable("G1.ID", eltypes =[UTF8String], separator = ' ',header=false)
         posAi = getPos(ped,IDs)
         cor4 = cor(a[posAi],aHat3[posAi])[1,1]
         reg4 = linreg(aHat3[posAi], a[posAi])[2,1]
         @printf("SSBRJC from Gibbs - G1.ID : correlation = %6.3f\n", cor4 ) # with epsilon
         @printf("SSBRJC from Gibbs - G1.ID : regression of TBV on GEBV = %6.3f\n", req4)
         JCAll = cor4
         SSBRJC from Gibbs - G1.ID : correlation = 0.769
         SSBRJC from Gibbs - G1.ID : regression of TBV on GEBV = 0.992
Out[46]: 0.7685425239307059
In [47]: TBV = a[posAi]
         mean(TBV)
Out[47]: 31.493548999999998
In [48]: EBV = aHat3[posAi]
         mean(EBV)
Out[48]: 0.5633353983403888
```

```
In [49]: IDs = readtable("G2.ID", eltypes =[UTF8String], separator = ' ',header=false)
         posAi = getPos(ped,IDs)
         cor5 = cor(a[posAi],aHat3[posAi])[1,1]
         reg5 = linreg(aHat3[posAi], a[posAi])[2,1]
         @printf("SSBRJC from Gibbs - G2.ID : correlation = %6.3f\n", cor5 ) # with epsilon
         @printf("SSBRJC from Gibbs - G2.ID : regression of TBV on GEBV = %6.3f\n", reg5)
         JCAll = cor5
         SSBRJC from Gibbs - G2.ID : correlation = 0.769
         SSBRJC from Gibbs - G2.ID: regression of TBV on GEBV = 1.001
Out[49]: 0.7686043963187708
In [50]: TBV = a[posAi]
         mean(TBV)
Out[50]: 32.016997874999994
In [51]: EBV = aHat3[posAi]
         mean(EBV)
Out[51]: 1.0636128287704796
In [52]: IDs = readtable("G3.ID", eltypes =[UTF8String], separator = ' ',header=false)
         posAi = getPos(ped,IDs)
         cor6 = cor(a[posAi],aHat3[posAi])[1,1]
         reg6 = linreg(aHat3[posAi], a[posAi])[2,1]
         @printf("SSBRJC from Gibbs - G3.ID : correlation = %6.3f\n", cor6 ) # with epsilon
         @printf("SSBRJC from Gibbs - G3.ID : regression of TBV on GEBV = %6.3f\n", reg6)
         JCAll = cor6
         SSBRJC from Gibbs - G3.ID : correlation = 0.771
         SSBRJC from Gibbs - G3.ID : regression of TBV on GEBV = 1.002
Out[52]: 0.770910902035688
In [53]: TBV = a[posAi]
         mean(TBV)
Out[53]: 32.510399875000004
```

```
In [54]: EBV = aHat3[posAi]
         mean(EBV)
Out[54]: 1.5642160979846005
In [55]: IDs = readtable("G4.ID", eltypes =[UTF8String], separator = ' ',header=false)
         posAi = getPos(ped,IDs)
         cor7 = cor(a[posAi],aHat3[posAi])[1,1]
         reg7 = linreg(aHat3[posAi], a[posAi])[2,1]
         @printf("SSBRJC from Gibbs - G4.ID : correlation = %6.3f\n", cor7 ) # with epsilon
         @printf("SSBRJC from Gibbs - G4.ID : regression of TBV on GEBV = %6.3f\n", reg7)
         JCAll = cor7
         SSBRJC from Gibbs - G4.ID : correlation = 0.731
         SSBRJC from Gibbs - G4.ID : regression of TBV on GEBV = 0.979
Out[55]: 0.7314852132212305
In [56]: TBV = a[posAi]
         mean(TBV)
Out[56]: 33.02936937500001
In [57]: EBV = aHat3[posAi]
         mean(EBV)
Out[57]: 2.0974880912600975
In [58]: IDs = readtable("G5.ID", eltypes =[UTF8String], separator = ' ',header=false)
         posAi = getPos(ped,IDs)
         cor8 = cor(a[posAi],aHat3[posAi])[1,1]
         reg8 = linreg(aHat3[posAi], a[posAi])[2,1]
         @printf("SSBRJC from Gibbs - G5.ID : correlation = %6.3f\n", cor8 ) # with epsilon
         @printf("SSBRJC from Gibbs - G5.ID : regression of TBV on GEBV = %6.3f\n", reg8)
         JCAll = cor8
         SSBRJC from Gibbs - G5.ID : correlation = 0.426
         SSBRJC from Gibbs - G5.ID: regression of TBV on GEBV = 1.006
Out[58]: 0.42616041584602476
```

```
In [59]: TBV = a[posAi]
         mean(TBV)
Out[59]: 33.47593925000001
In [60]: EBV = aHat3[posAi]
         mean(EBV)
Out[60]: 2.6109795404402494
In [61]: IDs = readtable("G0.Genotype.ID", eltypes =[UTF8String], separator = ' ',header=false)
         posAi = getPos(ped,IDs)
         cor9 = cor(a[posAi],aHat3[posAi])[1,1]
         reg9 = linreg(aHat3[posAi], a[posAi])[2,1]
         @printf("SSBRJC from Gibbs - G0.Genotype.ID : correlation = %6.3f\n", cor9 ) # with epsilon
         @printf("SSBRJC from Gibbs - G0.Genotype.ID : regression of TBV on GEBV = %6.3f\n", reg9)
         JCAll = cor9
         SSBRJC from Gibbs - G0.Genotype.ID : correlation = 0.895
         SSBRJC from Gibbs - G0.Genotype.ID : regression of TBV on GEBV = 1.058
Out[61]: 0.8947380428264662
In [62]: TBV = a[posAi]
         mean(TBV)
Out[62]: 32.06961499999999
In [63]: EBV = aHat3[posAi]
         mean(EBV)
Out[63]: 1.1649699072505213
```

```
In [64]: IDs = readtable("G1.Genotype.ID", eltypes =[UTF8String], separator = ' ',header=false)
         posAi = getPos(ped,IDs)
         cor9 = cor(a[posAi],aHat3[posAi])[1,1]
         reg9 = linreg(aHat3[posAi], a[posAi])[2,1]
         @printf("SSBRJC from Gibbs - G1.Genotype.ID : correlation = %6.3f\n", cor9 ) # with epsilon
         @printf("SSBRJC from Gibbs - G1.Genotype.ID : regression of TBV on GEBV = %6.3f\n", reg9)
         JCAll = cor9
         SSBRJC from Gibbs - G1.Genotype.ID : correlation = 0.892
         SSBRJC from Gibbs - G1.Genotype.ID : regression of TBV on GEBV = 0.956
Out[64]: 0.8924875520394207
In [65]: TBV = a[posAi]
         mean(TBV)
Out[65]: 32.53248
In [66]: EBV = aHat3[posAi]
         mean(EBV)
Out[66]: 1.5788048730145658
In [67]: IDs = readtable("G2.Genotype.ID", eltypes =[UTF8String], separator = ' ',header=false)
         posAi = getPos(ped,IDs)
         cor10 = cor(a[posAi],aHat3[posAi])[1,1]
         reg10 = linreg(aHat3[posAi], a[posAi])[2,1]
         @printf("SSBRJC from Gibbs - G2.Genotype.ID : correlation = %6.3f\n", cor10 ) # with epsilon
         @printf("SSBRJC from Gibbs - G2.Genotype.ID : regression of TBV on GEBV = %6.3f\n", req10)
         JCAll = cor10
         SSBRJC from Gibbs - G2.Genotype.ID : correlation = 0.920
         SSBRJC from Gibbs - G2.Genotype.ID : regression of TBV on GEBV = 1.046
Out[67]: 0.9203167505971668
In [68]: TBV = a[posAi]
         mean(TBV)
Out[68]: 32.992644999999996
```

```
In [69]: EBV = aHat3[posAi]
         mean(EBV)
Out[69]: 2.0618979317127883
In [70]: IDs = readtable("G3.Genotype.ID", eltypes =[UTF8String], separator = ' ',header=false)
         posAi = getPos(ped,IDs)
         cor11 = cor(a[posAi],aHat3[posAi])[1,1]
         reg11 = linreg(aHat3[posAi], a[posAi])[2,1]
         @printf("SSBRJC from Gibbs - G3.Genotype.ID : correlation = %6.3f\n", cor11 ) # with epsilon
         @printf("SSBRJC from Gibbs - G3.Genotype.ID : regression of TBV on GEBV = %6.3f\n", req11)
         JCAll = cor11
         SSBRJC from Gibbs - G3.Genotype.ID : correlation = 0.866
         SSBRJC from Gibbs - G3.Genotype.ID : regression of TBV on GEBV = 1.009
Out[70]: 0.8655993611215739
In [71]: TBV = a[posAi]
         mean(TBV)
Out[71]: 33.55061500000001
In [72]: EBV = aHat3[posAi]
         mean(EBV)
Out[72]: 2.6254443730801773
In [73]: IDs = readtable("G4.Genotype.ID", eltypes =[UTF8String], separator = ' ',header=false)
         posAi = getPos(ped,IDs)
         cor12 = cor(a[posAi],aHat3[posAi])[1,1]
         reg12 = linreg(aHat3[posAi], a[posAi])[2,1]
         @printf("SSBRJC from Gibbs - G4.Genotype.ID : correlation = %6.3f\n", cor12 ) # with epsilon
         @printf("SSBRJC from Gibbs - G4.Genotype.ID : regression of TBV on GEBV = %6.3f\n", req12)
         JCAll = cor12
         SSBRJC from Gibbs - G4.Genotype.ID : correlation = 0.535
         SSBRJC from Gibbs - G4.Genotype.ID : regression of TBV on GEBV = 1.029
Out[73]: 0.5349206177288354
```

```
In [74]: TBV = a[posAi]
         mean(TBV)
Out[74]: 33.934619999999995
In [75]: EBV = aHat3[posAi]
         mean(EBV)
Out[75]: 3.115580799351751
In [76]: IDs = readtable("G5.Genotype.ID", eltypes =[UTF8String], separator = ' ',header=false)
         posAi = getPos(ped,IDs)
         cor13 = cor(a[posAi],aHat3[posAi])[1,1]
         reg13 = linreg(aHat3[posAi], a[posAi])[2,1]
         @printf("SSBRJC from Gibbs - G5.Genotype.ID : correlation = %6.3f\n", cor13 ) # with epsilon
         @printf("SSBRJC from Gibbs - G5.Genotype.ID : regression of TBV on GEBV = %6.3f\n", req13)
         JCAll = cor13
         SSBRJC from Gibbs - G5.Genotype.ID : correlation = 0.426
         SSBRJC from Gibbs - G5.Genotype.ID: regression of TBV on GEBV = 1.006
Out[76]: 0.42616041584602476
In [77]: writedlm("Correlation.G5.G.PBLUP.txt",cor13)
In [78]: writedlm("Regression.G5.G.PBLUP.txt",reg13)
In [79]: TBV = a[posAi]
         mean(TBV)
Out[79]: 33.47593925000001
In [80]: EBV = aHat3[posAi]
         mean(EBV)
Out[80]: 2.6109795404402494
```

```
In [81]: IDs = readtable("G0.noGenotype.ID", eltypes =[UTF8String], separator = ' ',header=false)
         posAi = getPos(ped,IDs)
         cor14 = cor(a[posAi],aHat3[posAi])[1,1]
         reg14 = linreg(aHat3[posAi], a[posAi])[2,1]
         @printf("SSBRJC from Gibbs - G0.noGenotype.ID : correlation = %6.3f\n", cor14 ) # with epsilon
         @printf("SSBRJC from Gibbs - G0.noGenotype.ID : regression of TBV on GEBV = %6.3f\n", reg14)
         JCAll = cor14
         SSBRJC from Gibbs - G0.noGenotype.ID : correlation = 0.701
         SSBRJC from Gibbs - G0.noGenotype.ID: regression of TBV on GEBV = 0.882
Out[81]: 0.7011914693437061
In [82]: TBV = a[posAi]
         mean(TBV)
Out[82]: 30.91687525641025
In [83]: EBV = aHat3[posAi]
         mean(EBV)
Out[83]: -0.030932741404463757
In [84]: IDs = readtable("G1.noGenotype.ID", eltypes =[UTF8String], separator = ' ',header=false)
         posAi = getPos(ped,IDs)
         cor14 = cor(a[posAi],aHat3[posAi])[1,1]
         reg14 = linreg(aHat3[posAi], a[posAi])[2,1]
         @printf("SSBRJC from Gibbs - G1.noGenotype.ID : correlation = %6.3f\n", cor14 ) # with epsilon
         @printf("SSBRJC from Gibbs - G1.noGenotype.ID : regression of TBV on GEBV = %6.3f\n", reg14)
         JCAll = cor14
         SSBRJC from Gibbs - G1.noGenotype.ID : correlation = 0.754
         SSBRJC from Gibbs - G1.noGenotype.ID : regression of TBV on GEBV = 0.990
Out[84]: 0.754259545362568
In [85]: TBV = a[posAi]
         mean(TBV)
Out[85]: 31.466909743589742
```

```
In [86]: EBV = aHat3[posAi]
         mean(EBV)
Out[86]: 0.5372977195025893
In [87]: IDs = readtable("G2.noGenotype.ID", eltypes =[UTF8String], separator = ' ',header=false)
         posAi = getPos(ped,IDs)
         cor15 = cor(a[posAi],aHat3[posAi])[1,1]
         reg15 = linreg(aHat3[posAi], a[posAi])[2,1]
         @printf("SSBRJC from Gibbs - G2.noGenotype.ID : correlation = %6.3f\n", cor15 ) # with epsilon
         @printf("SSBRJC from Gibbs - G2.noGenotype.ID : regression of TBV on GEBV = %6.3f\n", reg15)
         JCAll = cor15
         SSBRJC from Gibbs - G2.noGenotype.ID : correlation = 0.754
         SSBRJC from Gibbs - G2.noGenotype.ID : regression of TBV on GEBV = 1.001
Out[87]: 0.7540442276854483
In [88]: TBV = a[posAi]
         mean(TBV)
Out[88]: 31.991981282051274
In [89]: EBV = aHat3[posAi]
         mean(EBV)
Out[89]: 1.038015774848882
In [90]: IDs = readtable("G3.noGenotype.ID", eltypes =[UTF8String], separator = ' ',header=false)
         posAi = getPos(ped,IDs)
         cor16 = cor(a[posAi],aHat3[posAi])[1,1]
         reg16 = linreg(aHat3[posAi], a[posAi])[2,1]
         @printf("SSBRJC from Gibbs - G3.noGenotype.ID : correlation = %6.3f\n", cor16 ) # with epsilon
         @printf("SSBRJC from Gibbs - G3.noGenotype.ID : regression of TBV on GEBV = %6.3f\n", reg16)
         JCAll = cor16
         SSBRJC from Gibbs - G3.noGenotype.ID : correlation = 0.757
         SSBRJC from Gibbs - G3.noGenotype.ID: regression of TBV on GEBV = 1.003
Out[90]: 0.7566178528635609
```

```
In [91]: | TBV = a[posAi]
         mean(TBV)
Out[91]: 32.483727692307696
In [92]: EBV = aHat3[posAi]
         mean(EBV)
Out[92]: 1.5370051165718934
In [93]: IDs = readtable("G4.noGenotype.ID", eltypes =[UTF8String], separator = ' ',header=false)
         posAi = getPos(ped,IDs)
         cor17 = cor(a[posAi],aHat3[posAi])[1,1]
         reg17 = linreg(aHat3[posAi], a[posAi])[2,1]
         @printf("SSBRJC from Gibbs - G4.noGenotype.ID : correlation = %6.3f\n", cor17 ) # with epsilon
         @printf("SSBRJC from Gibbs - G4.noGenotype.ID : regression of TBV on GEBV = %6.3f\n", req17)
         JCAll = cor17
         SSBRJC from Gibbs - G4.noGenotype.ID : correlation = 0.722
         SSBRJC from Gibbs - G4.noGenotype.ID : regression of TBV on GEBV = 0.987
Out[93]: 0.7216354081175145
In [94]: TBV = a[posAi]
         mean(TBV)
Out[94]: 33.006157820512826
In [95]: EBV = aHat3[posAi]
         mean(EBV)
Out[95]: 2.071383150026978
In [96]: numSSBayes
Out[96]: SSBR.NumSSBayes(54908,45908,9000,40000,39000,1000,0)
```