In [1]:
```
using DataFrames
```

QTL + Markers

In [2]:
```
; paste G/*/Correlation.G5.G.PBLUP.txt > All.Correlation.G5.G.PBLUP.txt
```

In [3]:
```
; paste G/*/Correlation.G5.G.JC.txt > All.Correlation.G5.G.JC.txt
```

In [4]:
```
; paste G/*/Correlation.G5.G.J.txt > All.Correlation.G5.G.J.txt
```

In [5]:
```
; paste G/*/Correlation.G5.G.C.txt > All.Correlation.G5.G.C.txt
```

In [6]:
```
; paste G/*/Correlation.G5.G.N.txt > All.Correlation.G5.G.N.txt
```

In [7]:
```
; paste G/*/Regression.G5.G.PBLUP.txt > All.Regression.G5.G.PBLUP.txt
```

In [8]:
```
; paste G/*/Regression.G5.G.JC.txt > All.Regression.G5.G.JC.txt
```

In [9]:
```
; paste G/*/Regression.G5.G.J.txt > All.Regression.G5.G.J.txt
```

In [10]:
```
; paste G/*/Regression.G5.G.C.txt > All.Regression.G5.G.C.txt
```

In [11]:
```
; paste G/*/Regression.G5.G.N.txt > All.Regression.G5.G.N.txt
```

In [12]:
```
GCorPBLUP = convert(Array,readtable("All.Correlation.G5.G.PBLUP.txt",separator=' ',header=false))
```

Out[12]:
```
1x10 Array{Float64,2}:
 0.420299  0.424409  0.422884  0.436484  …  0.423666  0.426669  0.458269
```

In [13]:
```
GCorJC = convert(Array,readtable("All.Correlation.G5.G.JC.txt",separator=' ',header=false))
```

Out[13]:
```
1x10 Array{Float64,2}:
 0.973111  0.979493  0.978526  0.980801  …  0.974794  0.981051  0.985913
```

In [14]:
```
GCorJ = convert(Array,readtable("All.Correlation.G5.G.J.txt",separator=' ',header=false))
```

Out[14]:
```
1x10 Array{Float64,2}:
 0.972831  0.979476  0.978672  0.980798  …  0.974699  0.981613  0.985781
```

In [15]:
```
GCorC = convert(Array,readtable("All.Correlation.G5.G.C.txt",separator=' ',header=false))
```

Out[15]:
```
1x10 Array{Float64,2}:
 0.973251  0.976904  0.977473  0.980726  …  0.97472  0.980589  0.985821
```

In [16]:
```
GCorN = convert(Array,readtable("All.Correlation.G5.G.N.txt",separator=' ',header=false))
```

Out[16]:
```
1x10 Array{Float64,2}:
 0.973133  0.976807  0.977399  0.980797  …  0.974661  0.980558  0.985744
```

In [17]:
```
GRegPBLUP = convert(Array,readtable("All.Regression.G5.G.PBLUP.txt",separator=' ',header=false))
```

Out[17]:
```
1x10 Array{Float64,2}:
 0.867037  0.969827  1.00994  1.09065  …  0.986909  0.956906  1.07851
```

In [18]:
```
GRegJC = convert(Array,readtable("All.Regression.G5.G.JC.txt",separator=' ',header=false))
```

Out[18]:
```
1x10 Array{Float64,2}:
 1.00958  1.02866  1.11595  1.11407  …  1.0685  1.06438  1.04607  1.03174
```

In [19]:
```
GRegJ = convert(Array,readtable("All.Regression.G5.G.J.txt",separator=' ',header=false))
```

Out[19]:
```
1x10 Array{Float64,2}:
 1.00962  1.02949  1.116  1.11419  …  1.0687  1.06508  1.04601  1.03196
```

In [20]:
```
GRegC = convert(Array,readtable("All.Regression.G5.G.C.txt",separator=' ',header=false))
```

Out[20]:
```
1x10 Array{Float64,2}:
 1.00973  1.03135  1.11616  1.11357  …  1.06683  1.06578  1.04598  1.03226
```

In [21]:
```
GRegN = convert(Array,readtable("All.Regression.G5.G.N.txt",separator=' ',header=false))
```

Out[21]:
```
1x10 Array{Float64,2}:
 1.0104  1.03129  1.11635  1.11382  …  1.06647  1.0658  1.04559  1.03192
```

In [22]:
```
mean(GCorPBLUP)
```

Out[22]: 0.4265591870375972

In [23]:
```
mean(GCorJC)
```

Out[23]: 0.9790796572545248

In [24]:
```
mean(GCorJ)
```

Out[24]: 0.9791268395269199

In [25]:
```
mean(GCorC)
```

Out[25]: 0.977500400768248

In [26]:
```
mean(GCorN)
```

Out[26]: 0.9774811696705438

In [27]:
```
mean(GRegPBLUP)
```

Out[27]: 0.9742405705948721

In [28]:
```
mean(GRegJC)
```

Out[28]: 1.0535340024476065

In [29]:
```
mean(GRegJ)
```

Out[29]: 1.053633333490312

In [30]:
```
mean(GRegC)
```

Out[30]: 1.053933364908711

In [31]:
```
mean(GRegN)
```

Out[31]: 1.0539237864956221

In [32]:
```
std(GCorPBLUP)
```

Out[32]: 0.013235274494864656

In [33]:
```
std(GCorJC)
```

Out[33]: 0.004002376464069747

In [34]:
```
std(GCorJ)
```

Out[34]: 0.004090796145160985

In [35]:
```
std(GCorC)
```

Out[35]: 0.004479839866708433

In [36]:
```
std(GCorN)
```

Out[36]: 0.004507840570292334

In [37]:
```
std(GRegPBLUP)
```

Out[37]: 0.07164202188551011

In [38]:
```
std(GRegJC)
```

Out[38]: 0.03694171264446568

In [39]:
```
std(GRegJ)
```

Out[39]: 0.037011828781561756

In [40]:
```
std(GRegC)
```

Out[40]: 0.03652413771664545

In [41]:
```
std(GRegN)
```

Out[41]: 0.03655130199522856

Markers

In [42]:
```
; paste M/*/Correlation.G5.M.JC.txt > All.Correlation.G5.M.JC.txt
```

In [43]:
```
; paste M/*/Correlation.G5.M.J.txt > All.Correlation.G5.M.J.txt
```

In [44]:
```
; paste M/*/Correlation.G5.M.C.txt > All.Correlation.G5.M.C.txt
```

In [45]:
```
; paste M/*/Correlation.G5.M.N.txt > All.Correlation.G5.M.N.txt
```

In [46]:
```
; paste M/*/Correlation.G5.M.JCL.txt > All.Correlation.G5.M.JCL.txt
```

In [47]:
```
; paste M/*/Correlation.G5.M.CL.txt > All.Correlation.G5.M.CL.txt
```

In [48]:
```
; paste M/*/Regression.G5.M.JC.txt > All.Regression.G5.M.JC.txt
```

In [49]:
```
; paste M/*/Regression.G5.M.J.txt > All.Regression.G5.M.J.txt
```

In [50]:
```
; paste M/*/Regression.G5.M.C.txt > All.Regression.G5.M.C.txt
```

In [51]:
```
; paste M/*/Regression.G5.M.N.txt > All.Regression.G5.M.N.txt
```

In [52]:
```
; paste M/*/Regression.G5.M.JCL.txt > All.Regression.G5.M.JCL.txt
```

In [53]:
```
; paste M/*/Regression.G5.M.CL.txt > All.Regression.G5.M.CL.txt
```

In [54]:
```
MCorJC = convert(Array,readtable("All.Correlation.G5.M.JC.txt",separator=' ',header=false))
```

Out[54]:
```
1x10 Array{Float64,2}:
 0.810026  0.874007  0.878299  0.816954  …  0.785956  0.866447  0.725626
```

In [55]:
```
MCorJ = convert(Array,readtable("All.Correlation.G5.M.J.txt",separator=' ',header=false))
```

Out[55]:
```
1x10 Array{Float64,2}:
 0.81  0.874007  0.878162  0.81682  0.864589  …  0.785787  0.866202  0.725603
```

In [56]:
```
MCorC = convert(Array,readtable("All.Correlation.G5.M.C.txt",separator=' ',header=false))
```

Out[56]:
```
1x10 Array{Float64,2}:
 0.806887  0.874173  0.878582  0.817052  …  0.786504  0.866608  0.725685
```

In [57]:
```
MCorN = convert(Array,readtable("All.Correlation.G5.M.N.txt",separator=' ',header=false))
```

Out[57]:
```
1x10 Array{Float64,2}:
 0.806697  0.874275  0.878512  …  0.714575  0.7864  0.86653  0.725559
```

In [58]:
```
MCorJCL = convert(Array,readtable("All.Correlation.G5.M.JCL.txt",separator=' ',header=false))
```

Out[58]:
```
1x10 Array{Float64,2}:
 0.810034  0.874025  0.878235  0.816759  …  0.786264  0.866227  0.725798
```

In [59]:
```
MCorCL = convert(Array,readtable("All.Correlation.G5.M.CL.txt",separator=' ',header=false))
```

Out[59]:
```
1x10 Array{Float64,2}:
 0.700358  0.711999  0.667749  0.641533  …  0.601753  0.673826  0.572773
```

In [60]:
```
MRegJC = convert(Array,readtable("All.Regression.G5.M.JC.txt",separator=' ',header=false))
```

Out[60]:
```
1x10 Array{Float64,2}:
 0.886563  0.947922  1.07049  0.990782  …  0.951456  0.974545  0.851964
```

In [61]:
```
MRegJ = convert(Array,readtable("All.Regression.G5.M.J.txt",separator=' ',header=false))
```

Out[61]:
```
1x10 Array{Float64,2}:
 0.887  0.947716  1.07042  0.989766  …  0.951845  0.974375  0.852218
```

In [62]:
```
MRegC = convert(Array,readtable("All.Regression.G5.M.C.txt",separator=' ',header=false))
```

Out[62]:
```
1x10 Array{Float64,2}:
 0.885015  0.947146  1.07008  0.990291  …  0.950633  0.973699  0.851599
```

In [63]:
```
MRegN = convert(Array,readtable("All.Regression.G5.M.N.txt",separator=' ',header=false))
```

Out[63]:
```
1x10 Array{Float64,2}:
 0.884731  0.947081  1.0702  0.989663  …  0.950941  0.97359  0.851495
```

In [64]:
```
MRegJCL = convert(Array,readtable("All.Regression.G5.M.JCL.txt",separator=' ',header=false))
```

Out[64]:
```
1x10 Array{Float64,2}:
 0.886717  0.94775  1.07025  0.990496  …  0.951216  0.974316  0.852049
```

In [65]:
```
MRegCL = convert(Array,readtable("All.Regression.G5.M.CL.txt",separator=' ',header=false))
```

Out[65]:
```
1x10 Array{Float64,2}:
 1.16159  1.2327  1.22782  1.18261  …  0.945695  1.09081  1.14364  1.0613
```

In [66]:
```
mean(MCorJC)
```

Out[66]:
```
0.820839642456658
```

In [67]:
```
mean(MCorJ)
```

Out[67]:
```
0.8207606635051912
```

In [68]:
```
mean(MCorC)
```

Out[68]:
```
0.8205464279417031
```

In [69]:
```
mean(MCorN)
```

Out[69]:
```
0.8204780702852285
```

In [70]:
```
mean(MCorJCL)
```

Out[70]:
```
0.8208574453948086
```

In [71]:
```
mean(MCorCL)
```

Out[71]:
```
0.6534856894679785
```

In [72]:
```
mean(MRegJC)
```

Out[72]:
```
0.9463122703476244
```

In [73]:
```
mean(MRegJ)
```

Out[73]:
```
0.9463558799716341
```

In [74]:
```
mean(MRegC)
```

Out[74]: 0.9456697488804044

In [75]:
```
mean(MRegN)
```

Out[75]: 0.9455209624497579

In [76]:
```
mean(MRegJCL)
```

Out[76]: 0.9462193027418531

In [77]:
```
mean(MRegCL)
```

Out[77]: 1.161298411673175

In [78]:
```
std(MCorJC)
```

Out[78]: 0.061784625795076265

In [79]:
```
std(MCorJ)
```

Out[79]: 0.06179998961609792

In [80]:
```
std(MCorC)
```

Out[80]: 0.06183963403562901

In [81]:
```
std(MCorN)
```

Out[81]: 0.06186812127149718

In [82]:
```
std(MCorJCL)
```

Out[82]: 0.06170332174141645

In [83]:
```
std(MCorCL)
```

Out[83]: 0.06023180119312978

In [84]:
```
std(MRegJC)
```

Out[84]: 0.06947359817044067

In [85]:
```
std(MRegJ)
```

Out[85]: 0.06931258631303457

In [86]:
```
std(MRegC)
```

Out[86]: 0.06979090529003662

In [87]:
```
std(MRegN)
```

Out[87]: 0.06981533820807415

In [88]:
```
std(MRegJCL)
```

Out[88]: 0.06933494584117418

In [89]:
```
std(MRegCL)
```

Out[89]: 0.10689327435634119