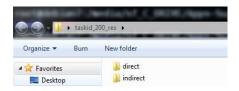
Readme

The name of the package will imply the value of taskid. For example, taskid_200_res.zip implies that taskid = 200. Name of taskid_xxx_res.zip will give taskid = xxx.



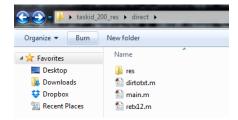
Inside the taskid_xxx_res there would be two folders: direct and indirect



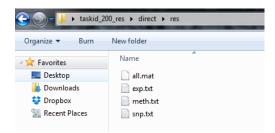
Here folder direct is to store all result about direct relationship, so for indirect. Maybe there will be only direct with indirect missing, which means I can't retrieve indirect relationship from current taskid.

direct relationship part

In folder taskid_xxx_res/direct, there will be some .m files and a folder named res. Ignore all .m files since they are only used to generate folder res.



In taskid_xxx_res/direct/res, There would be three .txt files and one .mat file. just focus on these .txt files since it's readable.



1. exp.txt

exp.txt is to record the Target ID and Symbol of Expression. There is only one line for exp.txt since for each task we only focus on one Expression variable.



2. meth.txt

This file is to record all methylations that are selected when doing regression to expression. There may be more than one lines inside(depending on how many methylation are selected), but if there are no methylation selected, this file won't be generated.



For this there is only one line in meth.txt since there is only one selected methylation.

3. snp.txt

This file is to store all SNP's selected when doing regression to expression. There are three columns in the file.

92	C (' C40	(1.01/ //020//015// 1:1.// 1:1.200 //
		e/ahe01/syrc/5020/5015/task_indep/taskid_200_res/d
1		rs5992911
2		rs73877834
3		rs5992912
4		rs34653617
5		rs11089214
6		rs11089215
7		rs11089216
8		rs11089218
9		rs10775697
10		rs5746554
11		rs62228662
12		rs5746564
13		rs5747680
14		rs5746567
15		rs5747698
16		rs113710173
17		rs9618684
18		rs12628685
19		rs12170243
20		rs5748929
21		rs2108582
22		rs7285493
23		rs9617962
24		rs9617963
25		rs12157365
26		rs5992649
27		rs5994238
28		rs5992650
29		rs178273
30		rs680548
31		rs650538
32		rs12483894
33		rs111719983
34		rs115091689
35		rs113994637
36		rs8139870
37		rs16981003
38		rs4414
39		rs114959216
40		rs113402025
41		rs112343331
42		rs75151479
43		rs80005710
44		rs3788394
45		rs5752309
46		rs6005025
47		rs5997077
48		rs111633165
49		rs112794880

The first line is just to index all involved SNP's (including tagSNP and SNP tagged by tagSNP). The second column is used to express the tagSNP and "SNP tagged by tagSNP". As we can see in the example, there are some repeating for the second line (1, 2, 5 are not unique, there are repeating, but 3, 4 are unique without repeating.)

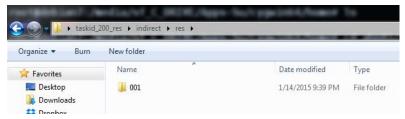
for all SNP's with the same value of the second line, the first one appeared in the file is the tagSNP and the rest is the "SNP's tagged by the tagSNP".

i.e. in the picture there are 28 SNP's are of value 1 for the second line. Then the first one is tagSNP(rs5992911), and the rest of the 27 SNP's are just SNP's tagged by the tagSNP.

but if they are unique of the second line, which just means the selected tagSNP doesn't tag any other SNP in the dataset(i.e. rs8139870 of line 36, means rs8139870 is a tagSNP and it doesn't tag any other SNP. And the same for rs1698003 of line 37)

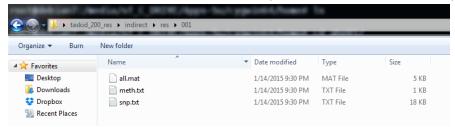
Indirect relationship part

in folder taskid_xxx_res/indirect/res , Again let ignore all .m files. there would be more than one folders inside. it's named as 001 002 003 004



for taskid = 200 since there is only one methylation selected, then there is only 001.

If I can't retrieve indirect relationship(means no methylation selected), then the taskid_xxx_res/indirect/ folder won't be generated. In folder taskid_xxx_res/indirect/res/xxx there will be three files all.mat, meth.txt, snp.txt, let's focus on .txt file only.



1. meth.txt

to record the methylation for this indirect relationship task. there is only one line inside. The first column is for target id and the second is for symbol.



2. snp.txt

to record all SNP's when doing regression from SNP to methylation. I skip it here since it's exactly the same as I explained in the direct relationship part.