Problem 2 Output

Summary motif results

mfinder Version 1.20

MOTIF FINDER RESULTS:

Network name: problem2_input.txt

Network type: Directed

Num of Nodes: 280 Num of Edges: 2170

Num of Nodes with edges: 280

Maximal out degree (out-hub): 39

Maximal in degree (in-hub): 45

Roots num: 13 Leaves num: 21

Single Edges num: 1776 Mutual Edges num: 197

Motif size searched 4

Total number of 4-node subgraphs: 875316

Number of random networks generated: 10

Random networks generation method: Switches

Num of Switches range: 100.0-200.0, Success switches Ratio:0.762+-0.00

The following motifs were found:

Criteria taken: Nreal Zscore > 2.00

Pval ignored (due to small number of random networks)

Mfactor > 1.10

Uniqueness >= 4

Top Motifs List

MOTIF	NREAL	NRAND	NREAL	NREAL	UNIQ	CREAL
ID		STATS	ZSCORE	PVAL	VAL	[MILI]
204	2950	2192.8+-101.5	7.46	0.000	32	3.37
0011						
0011						
0000						
0000						
222	1606	73.1+-12.6	121.74	0.000	17	1.83
0111						
1011						
0000						
0000						
904	3027	1972.4+-61.2	17.24	0.000	27	3.46
0001						
0001						
1100						
0000						
906	1905	715.7+-79.0	15.05	0.000	22	2.18

```
0101
0001
1100
0000
922
      2143 98.3+-34.2
                         59.79 0.000 18
                                            2.45
0101
1001
1100
0000
2252 1447 584.4+-62.7
                        13.75 0.000 28
                                            1.65
0011
0011
0001
0 \ 0 \ 0 \ 0
6552 803
            60.9+-20.9
                         35.48 0.000 11
                                            0.92
0001
1001
1001
1000
      (Total No. of non-dangling motifs: 75)
      Full list includes 102 motifs
```

Top Motifs Graphs:













