Problem 2 Output

Summary motif results

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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

0 0 1 1

0 0 1 1

0 0 0 0

0 0 0 0

222 1606 73.1+-12.6 121.74 0.000 17 1.83

0 1 1 1

1 0 1 1

0 0 0 0

0 0 0 0

904 3027 1972.4+-61.2 17.24 0.000 27 3.46

0 0 0 1

0 0 0 1

1 1 0 0

0 0 0 0

906 1905 715.7+-79.0 15.05 0.000 22 2.18

0 1 0 1

0 0 0 1

1 1 0 0

0 0 0 0

922 2143 98.3+-34.2 59.79 0.000 18 2.45

0 1 0 1

1 0 0 1

1 1 0 0

0 0 0 0

2252 1447 584.4+-62.7 13.75 0.000 28 1.65

0 0 1 1

0 0 1 1

0 0 0 1

0 0 0 0

6552 803 60.9+-20.9 35.48 0.000 11 0.92

0 0 0 1

1 0 0 1

1 0 0 1

1 0 0 0

(Total No. of non-dangling motifs : 75)

Full list includes 102 motifs

Top Motifs Graphs:













