Cloud Computing Concepts

# Message Type functionalities:

### JOINREQ:

1. add new node to memberList
2. send JOINREP back

### JOINREP:

1. set inGroup as true and start running
2. put myself into memberlist

### PING:

1. send ACK back

ACK:

1. log
2. reset counter
3. reset ***lastentry***

SUBPING

1. extract info out
2. process info
3. prepare SUBPINGREQ
4. send

SUBPINGREQ

1. extract info out
2. process info
3. prepare SUBPINGREP
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SUBPINGREP

1. extract info out
2. process info
3. prepare SUBPINGACK
4. send

SUBPINGACK

1. log
2. reset counter
3. reset **lastentry**

# Normal Loop Functionalities

### PING message send

1. delete last entry if not null
2. select a random neighbor
3. prepare ping message
   1. from addr
   2. to addr
   3. piggyback size
      1. number of entry
      2. content of memberListEntry
4. initial ping time out count
5. send

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### SUBPING message send

1. select other node//record the node that was suspended
2. prepare SUBPING message
   1. source address
   2. to address
   3. piggyback message – table update
3. initial fail count
4. send

### Remove Node from List

1. check the time
2. set flag

## Update my own status in member list