bit
2^32

0.0.0.0

Class-A

Range: 0.0.0.0 - 127.255.255.255
Mask: 255.0.0.0, /8
Number of nets: 128
Size of nets: 2^24 = 16 million hosts

0

bit
2^31

Class-B

Range: 128.0.0.0 - 191.255.255.255
Mask: 255.255.0.0, /16
Number of nets: 16384
Size of nets: 2^16 = 65536 hosts

0

bit
2^30

1

Range: 192.0.0.0 - 223.255.255.255
Mask: 255.255.255.0, /24
Number of nets: 2 millions
Size of nets: 2^8 = 256 hosts

0

bit
2^29

Class-C

1

0

Class-D

Range: 224.0.0.0 - 239.255.255.255
Mask: 255.255.255.255, /32
Number of nets/addresses: 256 millions
Size of nets: 2^0 = 1

1

1

Class-E

255.255.255.255

| 128 | 64 | 32 | 16 |