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## eSubnet.net - Inverse Mask Table

Below is a translation table of netmask to inverse to CIDR.

| Netmask         | Inverse         | /CIDR | Usable        | Size           |
|-----------------|-----------------|-------|---------------|----------------|
| 255.255.255.255 | 0.0.0.0         | /32   | 1             | 1 Host         |
| 255.255.255.254 | 0.0.0.1         | /31   | 0             | 2 Hosts        |
| 255.255.255.252 | 0.0.0.3         | /30   | 2             | 4 Hosts        |
| 255.255.255.248 | 0.0.0.7         | /29   | 6             | 8 Hosts        |
| 255.255.255.240 | 0.0.0.15        | /28   | 14            | 16 Hosts       |
| 255.255.255.224 | 0.0.0.31        | /27   | 30            | 32 Hosts       |
| 255.255.255.192 | 0.0.0.63        | /26   | 62            | 64 Hosts       |
| 255.255.255.128 | 0.0.0.127       | /25   | 126           | 128 Hosts      |
| 255.255.255.0   | 0.0.0.255       | /24   | 254           | 1 Class 'C'    |
| 255.255.254.0   | 0.0.1.255       | /23   | 510           | 2 Class 'C's   |
| 255.255.252.0   | 0.0.3.255       | /22   | 1,022         | 4 Class 'C's   |
| 255.255.248.0   | 0.0.7.255       | /21   | 2,046         | 8 Class 'C's   |
| 255.255.240.0   | 0.0.15.255      | /20   | 4,094         | 16 Class 'C's  |
| 255.255.224.0   | 0.0.31.255      | /19   | 8,190         | 32 Class 'C's  |
| 255.255.192.0   | 0.0.63.255      | /18   | 16,382        | 64 Class 'C's  |
| 255.255.128.0   | 0.0.127.255     | /17   | 32,766        | 128 Class 'C's |
| 255.255.0.0     | 0.0.255.255     | /16   | 65,534        | 1 Class 'B'    |
| 255.254.0.0     | 0.1.255.255     | /15   | 131,070       | 2 Class 'B's   |
| 255.252.0.0     | 0.3.255.255     | /14   | 262,142       | 4 Class 'B's   |
| 255.248.0.0     | 0.7.255.255     | /13   | 524,286       | 8 Class 'B's   |
| 255.240.0.0     | 0.15.255.255    | /12   | 1,048,574     | 16 Class 'B's  |
| 255.224.0.0     | 0.31.255.255    | /11   | 2,097,150     | 32 Class 'B's  |
| 255.192.0.0     | 0.63.255.255    | /10   | 4,194,302     | 64 Class 'B's  |
| 255.128.0.0     | 0.127.255.255   | /9    | 8,388,606     | 128 Class 'B's |
| 255.0.0.0       | 0.255.255.255   | /8    | 16,777,214    | 1 Class 'A'    |
| 254.0.0.0       | 1.255.255.255   | /7    | 33,554,430    | 2 Class 'A's   |
| 252.0.0.0       | 3.255.255.255   | /6    | 67,108,862    | 4 Class 'A's   |
| 248.0.0.0       | 7.255.255.255   | /5    | 134,217,726   | 8 Class 'A's   |
| 240.0.0.0       | 15.255.255.255  | /4    | 268,435,454   | 16 Class 'A's  |
| 224.0.0.0       | 31.255.255.255  | /3    | 536,870,910   | 32 Class 'A's  |
| 192.0.0.0       | 63.255.255.255  | /2    | 1,073,741,822 | 64 Class 'A's  |
| 128.0.0.0       | 127.255.255.255 | /1    | 2,147,483,646 | 128 Class 'A's |
| 0.0.0.0         | 255.255.255.255 | /0    | 4,294,967,294 | The Internet   |

### How Can eSubnet Help you

We understand not only the security and technology of networking, but also the critical role it plays in business. Contact us when you are planning your next ICT project to see how we can work with your team to ensure project success.