

**NAME**

ipcalc.pl – IP Calculator

**PACKAGE**

UNIttools

**SYNOPSIS**

```
ipcalc [-n|-h|-v|-help] ADDRESS[ [/ ]NETMASK] [NETMASK]
```

**DESCRIPTION**

ipcalc takes an IP address and netmask and calculates the resulting broadcast, network, Cisco wildcard mask, and host range. By giving a second netmask, you can design sub- and supernetworks. It is also intended to be a teaching tool and presents the results as easy-to-understand binary values.

Enter your netmask(s) in CIDR notation (/25) or dotted decimals (255.255.255.0). Inverse netmask are recognized. If you omit the netmask, ipcalc uses the default netmask for the class of your network.

Look at the space between the bits of the addresses: The bits before it are the network part of the address, the bits after it are the host part. You can see two simple facts: In a network address all host bits are zero, in a broadcast address they are all set.

The class of your network is determined by its first bits.

If your network is a private internet according to RFC 1918 this is remarked. When displaying subnets the new bits in the network part of the netmask are marked in a different color.

The wildcard is the inverse netmask as used for access control lists in Cisco routers. You can also enter netmasks in wildcard notation.

Do you want to split your network into subnets? Enter the address and netmask of your original network and play with the second netmask until the result matches your needs.

**OPTIONS**

-n Don't display ANSI color codes  
-b Suppress the bitwise output  
-c Just print bit-count-mask of given address  
-h Display results as HTML  
-help Longer help text  
-v Print Version

**EXAMPLES**

```
ipcalc 192.168.0.1/24
ipcalc 192.168.0.1/255.255.128.0
ipcalc 192.168.0.1 255.255.128.0 255.255.192.0
ipcalc 192.168.0.1 0.0.63.255
```

**COMMANDS**

perl(1)

**SEE ALSO****DIAGNOSTICS**

Errors printed to stdout/stderr.

**BUGS**

Probably. Please report them to the author.

**VERSION**

\$Date: 2005/11/21 11:35:04 \$

\$Revision: 1.2 \$

\$Source: /lan/ssi/projects/UNIttools/src/Linux/2.4.21-20cpsmp/pkgs/scripts/scripts-1.0/RCS/ipcalc.pl,v \$

\$State: Exp \$

**HISTORY**

See top of script. This version is based on 0.35.2.

**AUTHOR(S)**

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Manpage assembled by nth.