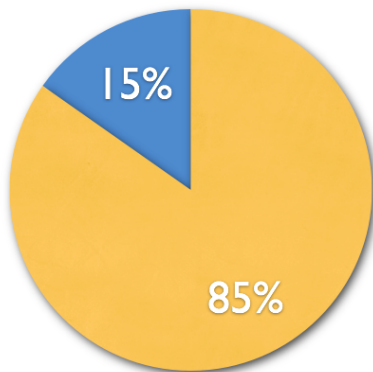




IPv6

Internet Protocol version 6



● Allocated ● Remaining

As of May 2008, only 15% of IPv4 space remains unallocated. The remaining space will be allocated by 2012.

Every device on the Internet requires an address so that it can communicate with other devices. With the rapid growth in Internet use in recent years, we are quickly running out of Internet addresses. Once all addresses are allocated, adding new devices to the Internet will become increasingly difficult and expensive.

The solution to this problem is a new protocol: Internet Protocol version 6 (IPv6). IPv6 provides, literally, trillions more addresses than IPv4, the version running much of the Internet today. All Internet governing bodies recommend that sites deploy IPv6 now in order to avoid future problems.

Nearly 10% of Internet2 universities have started using IPv6. Major sites like Google and Wikipedia have started making their services available over IPv6.

To use IPv6, your unit must first obtain IPv6 addresses from Information Technology Services (ITS). Contact your network administrator or backbone contact for more information.

For more information, please see the ITS Wiki:

<http://wikispaces.psu.edu/display/ipv6>

Many popular programs already support IPv6

Web Browsers

- FireFox 2
- IE 6
- Safari 2
- Opera 9

Web Servers

- Apache 2.x
- ColdFusion MX 7
- IIS 6

Programming Languages

- Java 1.4
- Perl
- PHP 5
- Python 2.4

Utilities

- AWstats
- curl
- rsync
- wget