

Peter Bieringer
pb@bieringer.de

IPv6 & Linux

1. IPv6-Conference
of the IPv6-Forum
in Germany 1999

Berlin

08. - 09.12.1999

IPv6 and Linux

- Current Status
- With Linux to the *6bone*
- IPv6-Ports of Applications
- Still Missing IPv6-Ports
- Distributions
- Links

Peter Bieringer
pb@bieringer.de

IPv6 & Linux

1. IPv6-Conference
of the IPv6-Forum
in Germany 1999

Berlin

08. - 09.12.1999

Zu meiner Person

- Activity on this subject:
since *November 1996*
- Author of the document:
IPv6-HowTo for Linux
 - Available on the Web since June 1997
 - Translations:
 - Available: French, Japanese, Portuguese
 - Intend resp. work in progress: Chinese
- Contact:
 - E-Mail: pb@bieringer.de
 - WWW: <http://www.bieringer.de/>

Current Status

- Linux-Kernel

- ✍ IPv6 is implemented in the *Production*-Kernel

- Current Version: 2.2.13

- ✍ EUI-64 Support

- ✍ Autoconfiguration

- 📦 Firewalling

- 📦 QoS

- Libraries

- ✍ IPv6 is implemented in the GNU-Library 2.1.x

- Current Version: 2.1.2

- ✍ Compatible to BSD-Sources

- ✍ Newest Distributions are based on it

- 📦 DNS resolving over native IPv6

Peter Bieringer
pb@bieringer.de

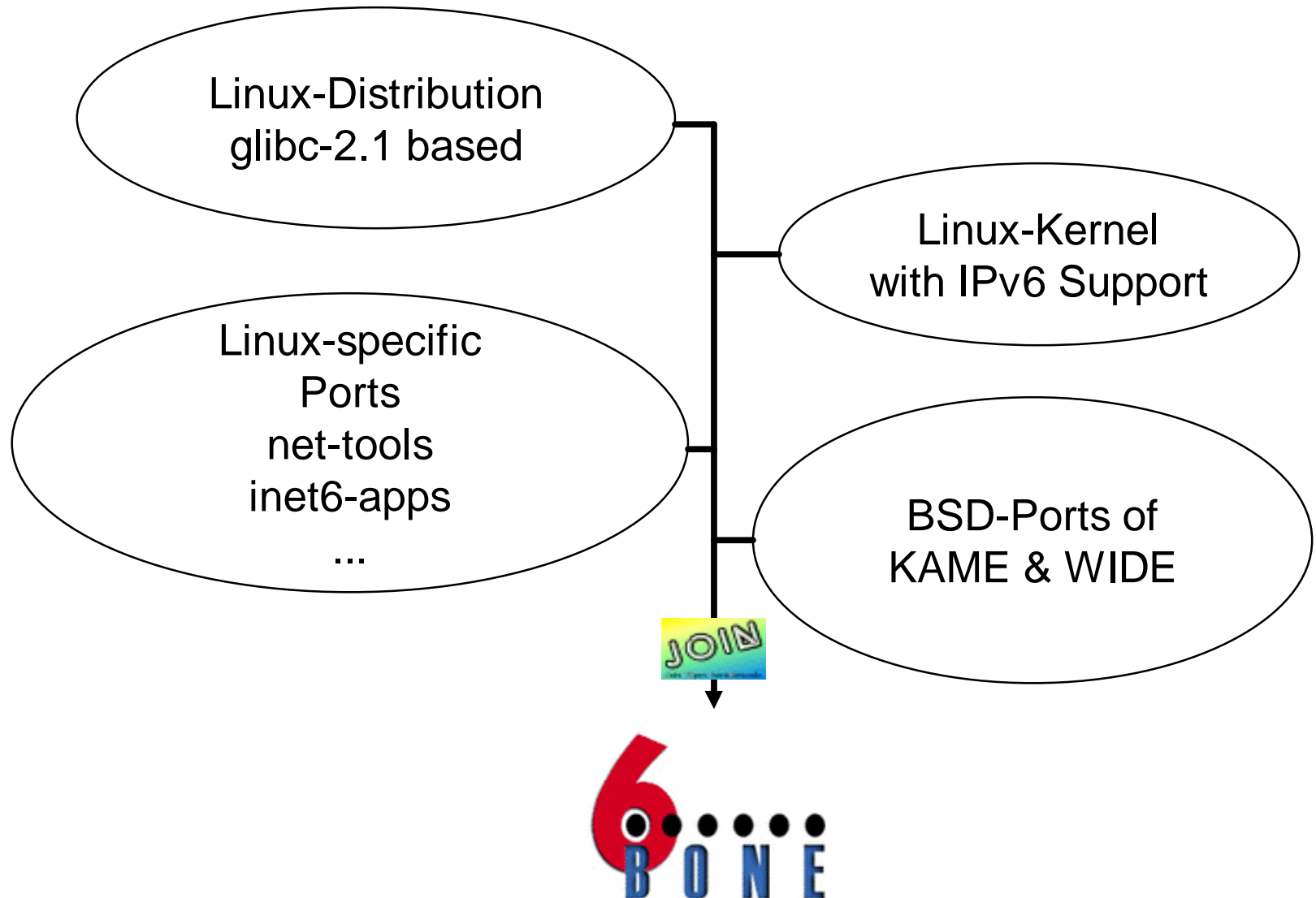
IPv6 & Linux

1. IPv6-Conference
of the IPv6-Forum
in Germany 1999

Berlin

08. - 09.12.1999

With Linux to the *6bone*



IPv6-Ports of Applications

- Primary for Linux
 - by INNER
 - ✍ finger, fingerd, ftp, ftpd, inn, innfeed, libpcap, nn-tk, trn, ping, qpopper, tftp, tftpd, telnet, telnetd, tcpdump, traceroute
 - Net-Tools
 - ✍ hostname, netstat, arp, ifconfig, rarp, route
 - Autoconfiguration
 - ✍ Router Advertisement Daemon

IPv6-Ports of Applications

- Primary for BSD
(also usable with glibc-2.1 based Linux)
 - by the KAME-Project
 - ✍ apache, bind8, cvs, ethereal, gated, icecast, lynx, mozilla, mpg123, mtr, ncftp, netperf, perl, php, ppp, python, racoon, rsync, ruby, sendmail, socks64, squid, tcp_wrappers, tcptrace, ucd-snmp, vnc, w3m, wbd, wget, wu-ftpd
 - by the WIDE-Project
 - ✍ ssh

List is not complete...

Still missing IPv6-Ports



NFS-Tools

- nfsd, mountd, mount



R-Commands

- rsh, rcmd, rcp



Setup script spreading over Distributions



Linuxconf-Module



DNS Resolver over native IPv6



Probably included in glibc-2.2

Distributions

Debian:

<http://www.debian.org/~csmall/ipv6/>

- RPM-based

 Linux IPv6 RPM Project (distributionsübergreifend)

<ftp://ebs.jindai.net/pub/linux/ipv6-rpm/>

 Polish Linux Distribution: <http://www.pld.org.pl/>
(Red Hat Clone)

 Red Hat

 S.u.S.E.

Links

- **Linux-Sources**
 - INNER: <http://www.inner.net/~cmetz/>
...further take a look at the *HowTo*
- **BSD-Sources**
 - KAME-Projekt: <http://www.kame.net/>
 - WIDE Projekt: <http://www.v6.wide.ad.jp/>
- **Information**
 - *HowTo*
 - <http://www.bieringer.de/linux/IPv6/IPv6-HOWTO/IPv6-HOWTO.html>