FreeBSD is not Linux

Niclas Zeising

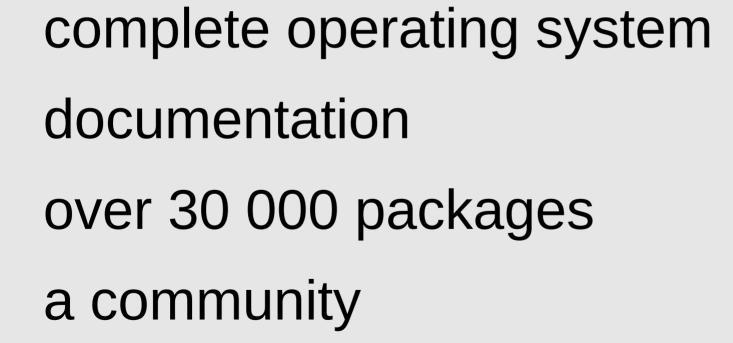
zeising@FreeBSD.org



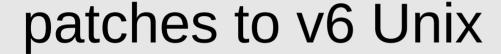


NETFLIX

what is FreeBSD



history



ex/vi, pascal

Berkely Software Distribution 1977

DARPA funding removal of AT&T code ported to i386



AT&T lawsuit

new release 1994

NetBSD – Portable OS (1993)

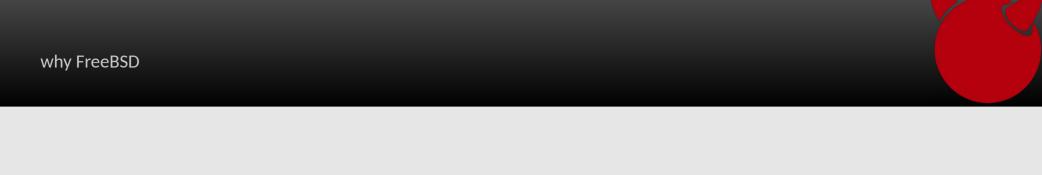
FreeBSD – Performance (1993)

OpenBSD – Security (1996)

Dragonfly BSD, TrueOS, FreeNAS, (macOS), ...

why use FreeBSD

great tools mature release model business friendly license open community



complete operating system devloper tools packaging system ready for development

FreeBSD features



good hardware support multiple cpu architectures easy to configure

file systems

ufs

zfs

others (fat, fuse, ...)

Mandatory Access Control audit

Capsicum



jails

original container platform

separate file system namespace

virtualized network stacks



original TCP/IP implementation full IPv4 and IPv6 supprt pluggable TCP stacks several firewalls



Ilvm toolchain

clang

lldb

IId



DTrace

dynamic tracing

see inside system calls

complete system transparency



bhyve

xen

linux system call emulation

ports
packages and pkg
poudriere

governance

core team election every 2 years working groups

supports the FreeBSD project

manages donations

legal entity



resources

www.freebsd.org github.com/freebsd mailing lists FreeBSD handbook

zeising@daemonic.se zeising@FreeBSD.org @niclaszeising