

State of BSD

NetBSD



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Review of 2009



- A great year!
- NetBSD 5.0 released
- New board
- Core team Changes
- Two pkgsrc quarterly releases

Lest we forget...



- Kerberos infrastructure
- New machines
- pkgsrc.* domains moved



Dingbat Free!



Today



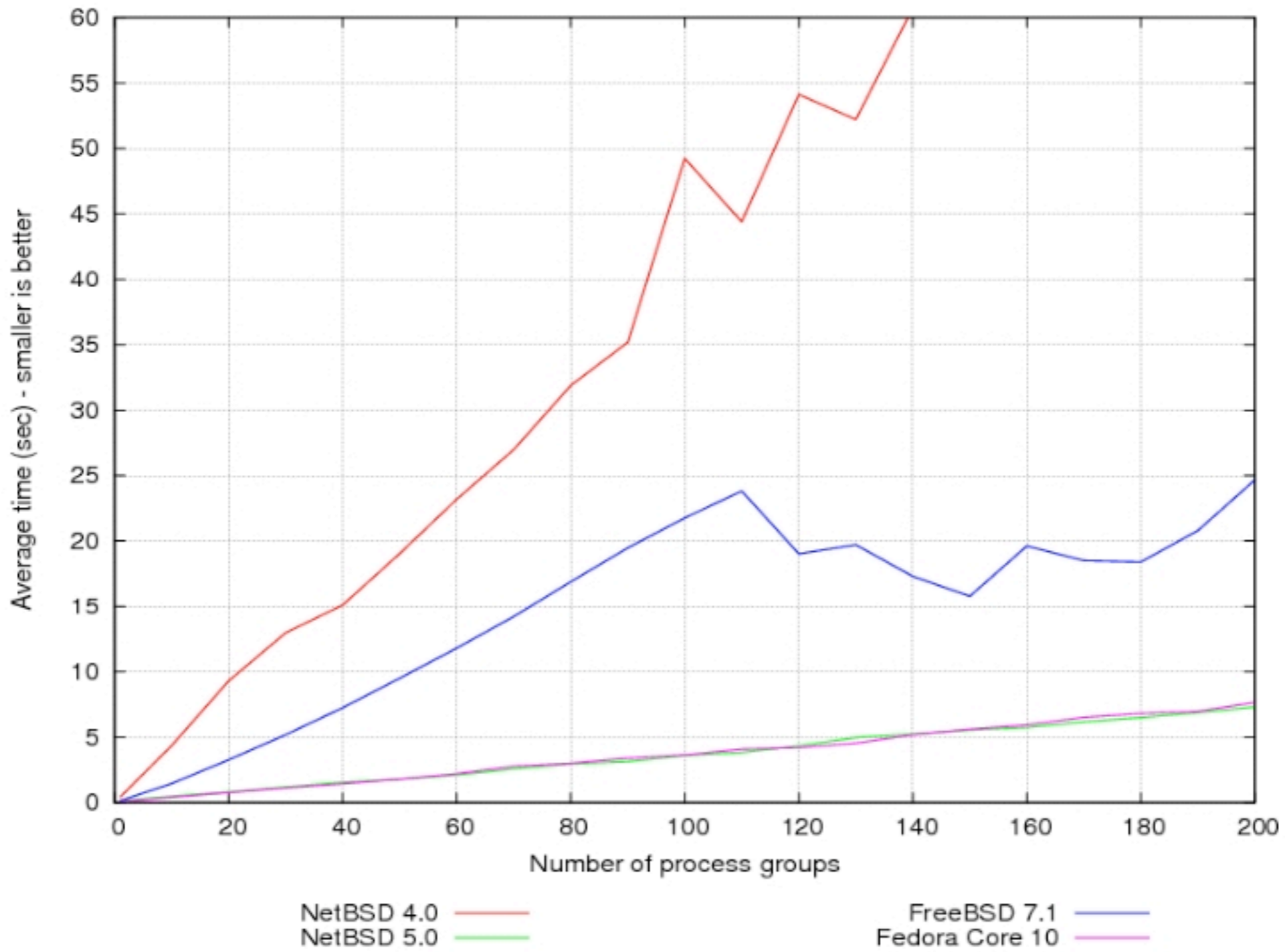
- NetBSD 6.0
- pkgsrc - 2009Q3 freeze starts on Monday
- roadmaps

NetBSD 5.0

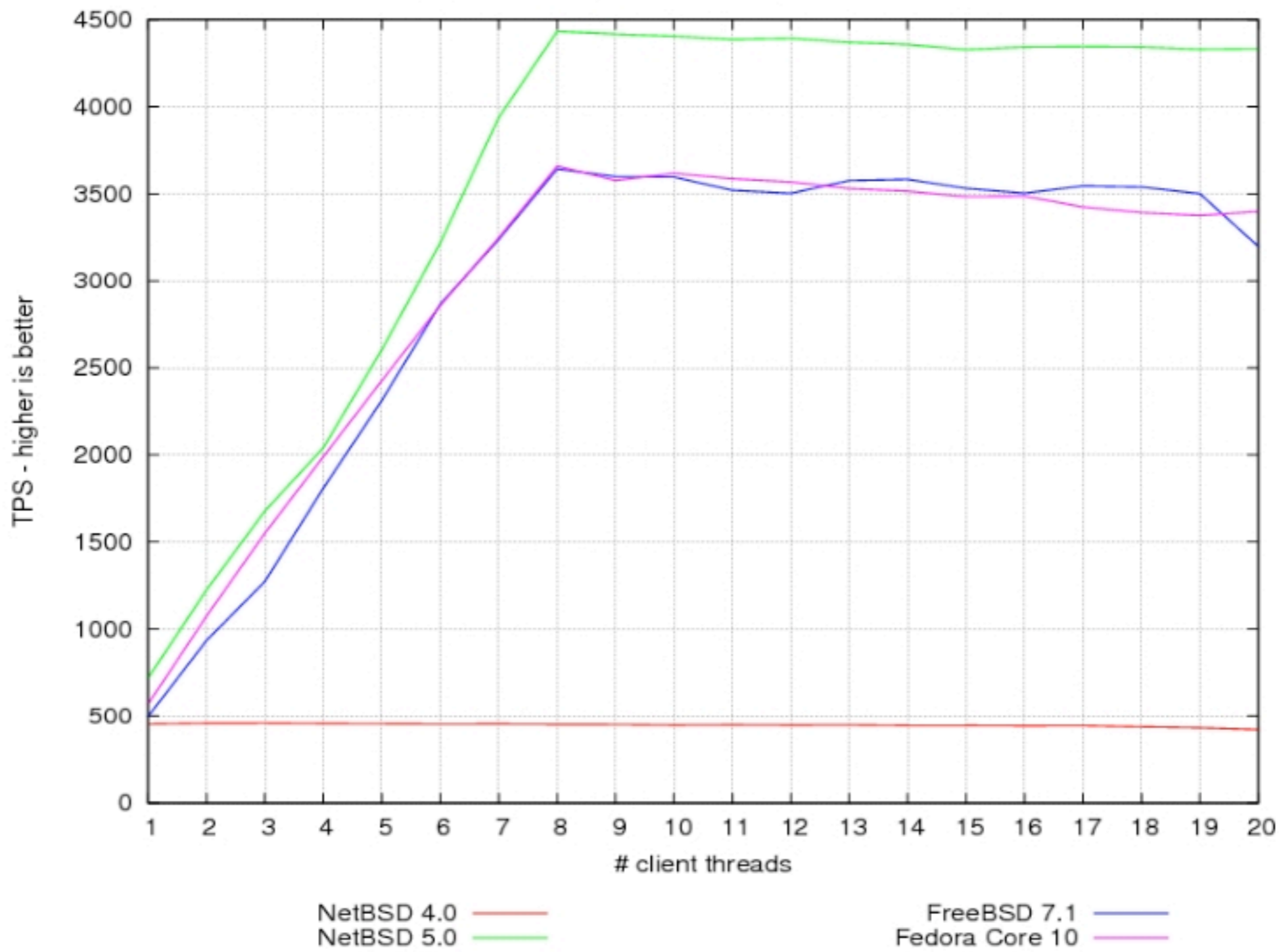


- Releng
 - snj is a rock star
- Released April 29th 2009
- <http://www.netbsd.org/~ad/50/>

hackbench IRC server simulation, 8 core Xeon E5320

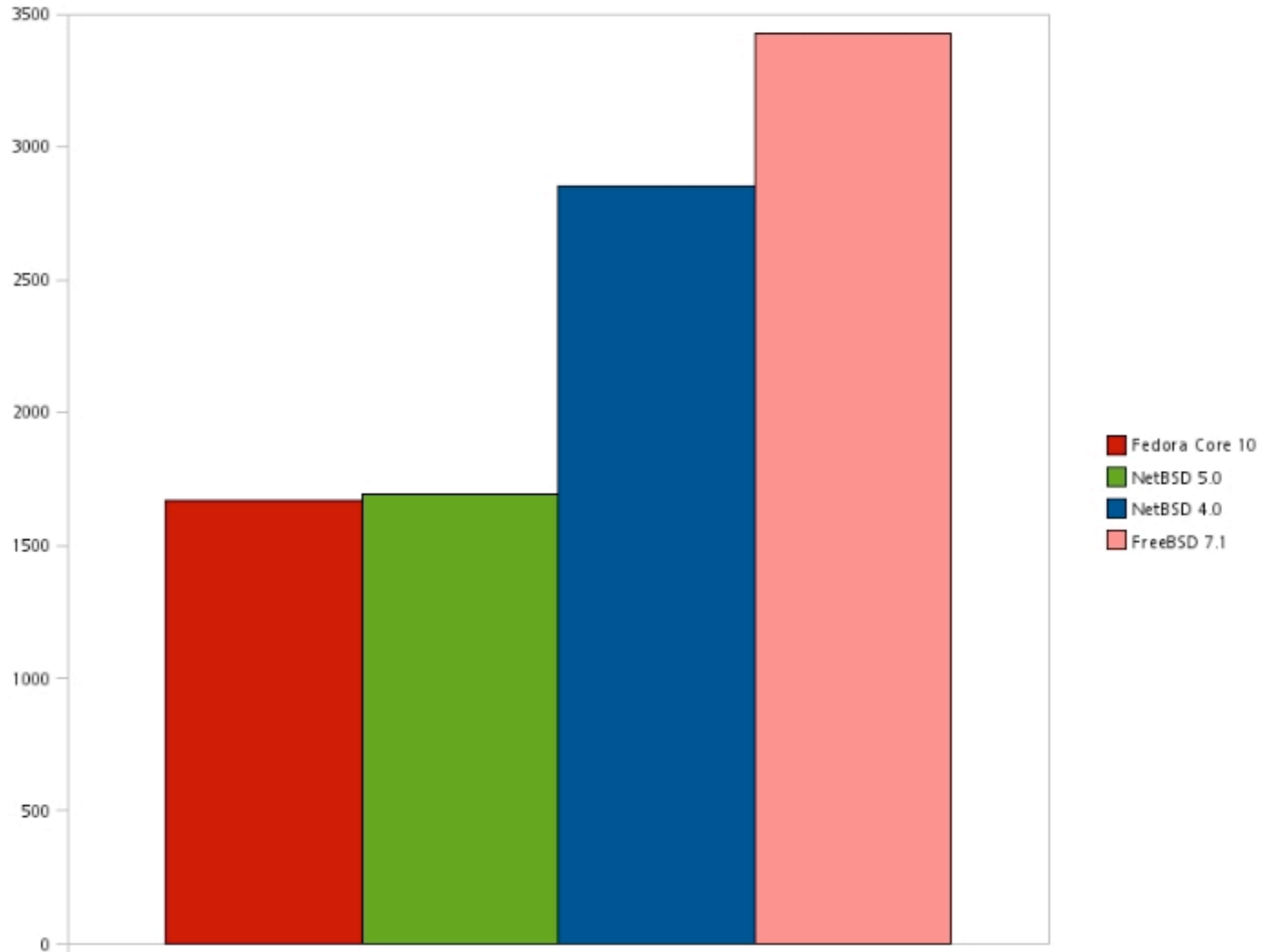


MySQL 5.0.51a sysbench OLTP, 8 core Xeon E5320

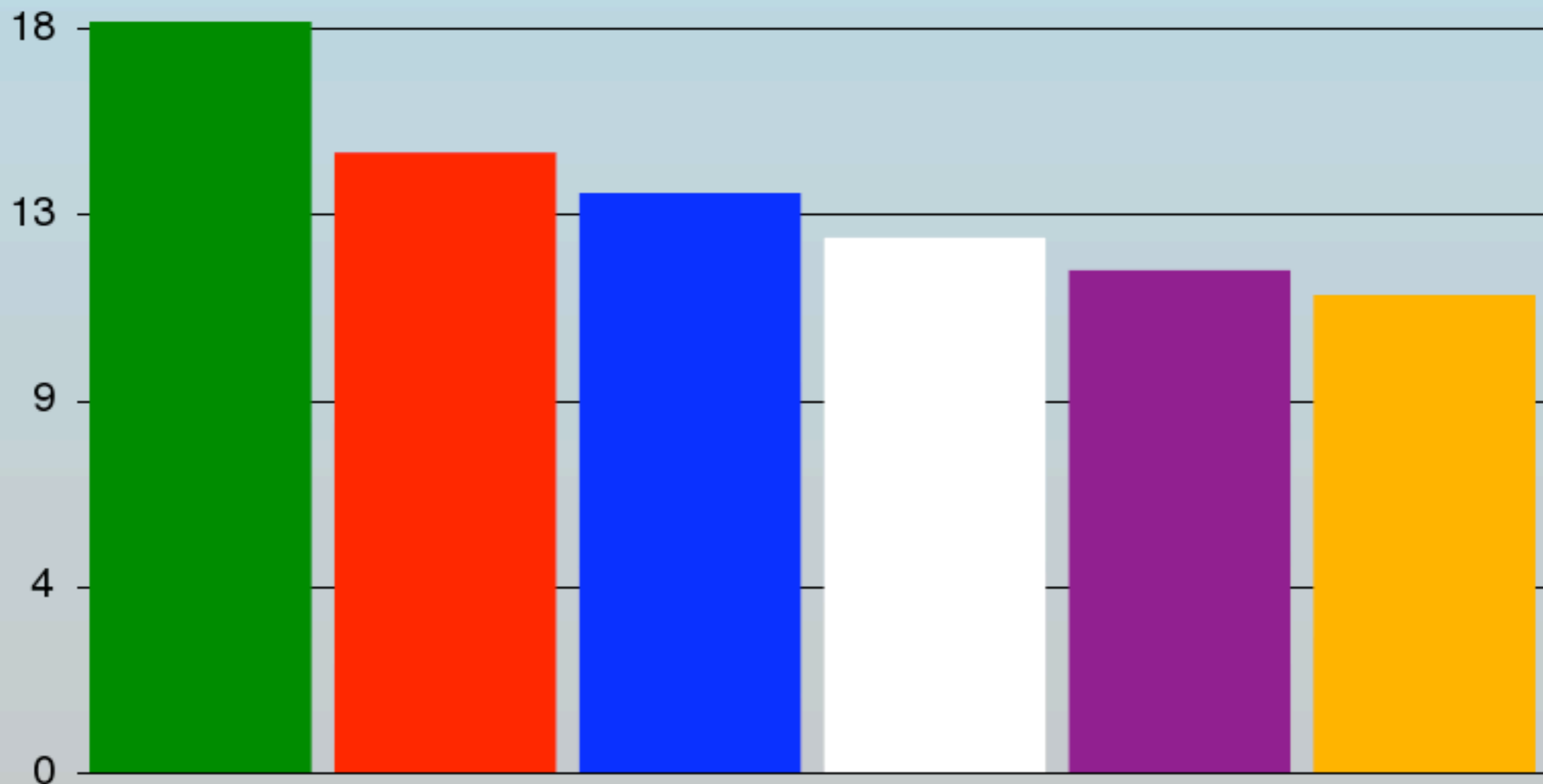
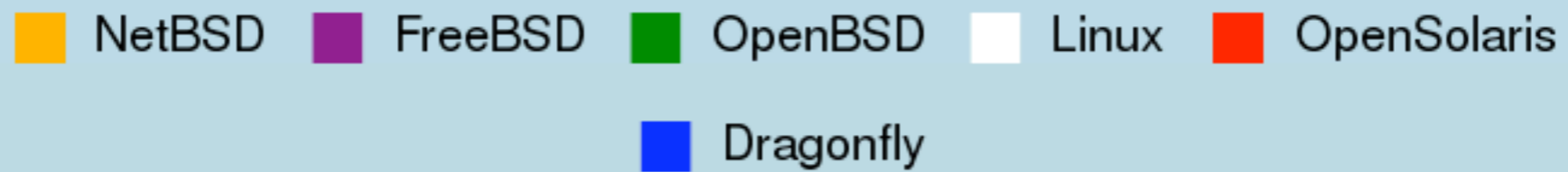


build.sh -j 16 -m i386 release

"build.sh -j 16 -m i386 release", 8 core Xeon E5320
Time in seconds



Ruby Bench: bm_word_anagrams_1



bm_word_anagrams_1: lower is better

Community



- Blog
- Wiki
- Evangelism

Funded Projects



- Way behind Linux in funding
- By targetting what we need
 - we get what we want
- Rules for what is a targeted project
- Project RFPs are available now

6.0 and beyond



- Some changes already in repository
- Already on 5.99.18
- Roadmaps



Roadmaps



- in src/doc/roadmaps
- system
- virtualization
- networking
- storage

System - in repo



- 64bit time_t
- kernel modules
- namei() improvements

System - to come



- kernel pre-emption for real-time threads
- POSIX shared memory
- Better resource controls
- online crashdumps, remote debugging
- processor & cache aware scheduler
- namei() - strategic cleanup

Networking



- Mobile IPv6
- SCTP
- TCP support in libsa
- netboot from HTTP

Storage - in repo



- LVM
- ZFS
- iSCSI initiator
- RUMP extensions

Storage - to come



- devfs
- in-kernel iSCSI initiator
- ReFUSE low-level
- Virtualised disks

Virtualization



- NetBSD/usermode - research project
- Xen domU migration, suspend & resume
- Xen balloon driver

Virtualization



- gaols via kauth
- iSCSI booting - in-kernel initiator
- iSCSI device cloning

Security



- RBAC kernel
- kauth with more scopes
- gaols
- netpgp

NetBSD 6.0



- Branch March 2010
- Looking to release 6.0 over summer

Thank you.
Any questions?



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