FreeBSD portmgr

What's happening in the world of ports and portmgr
BSDCan 2008

FreeBSD portmgr

FreeBSD portmgr

Random statistics

160 (167) ports committers
>18.000 (>17.000) ports
1503 (1434) maintainers
976 (652) Ports PRs
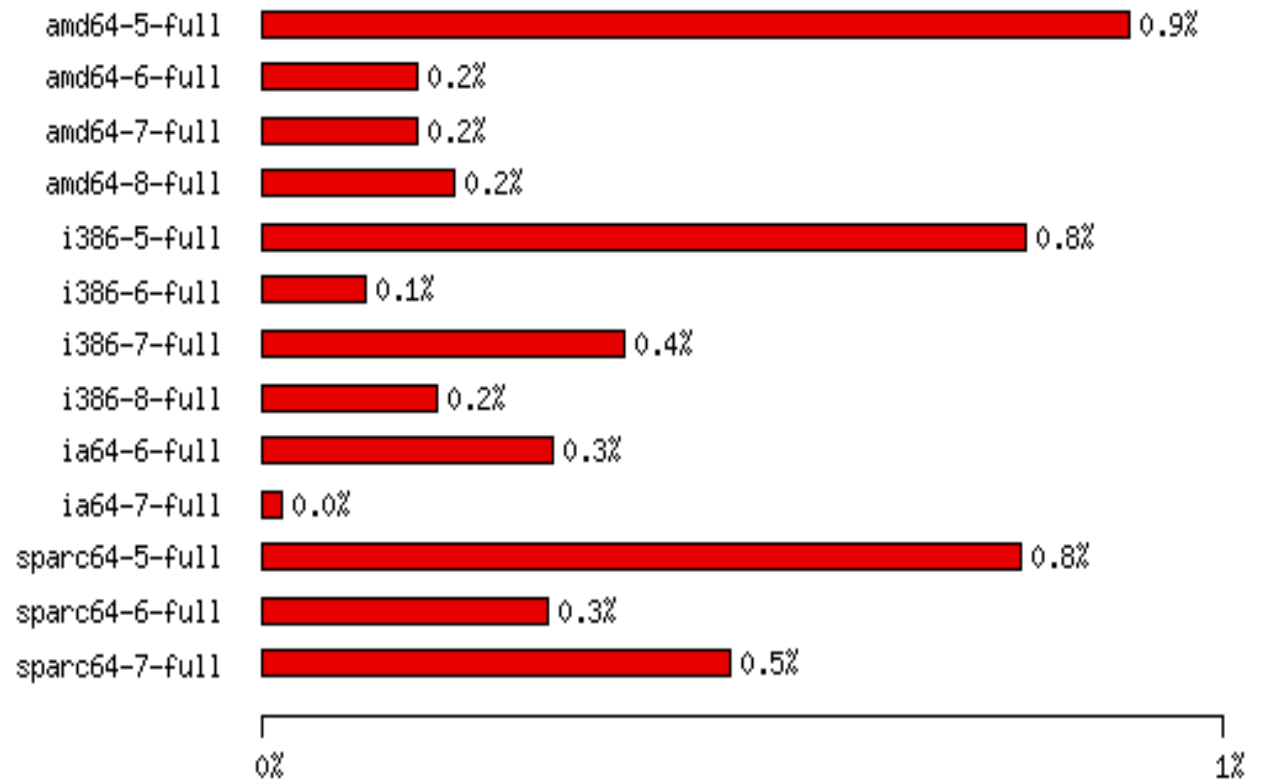175 (92) unassigned
61 (68) portmgr

FreeBSD portmgr

Random statistics

- -7 errors down
  from ~4%
- most errors on -5

Percent of ports with build errors by build environment

Build environment	Percent
amd64-5-full	0.9%
amd64-6-full	0.2%
amd64-7-full	0.2%
amd64-8-full	0.2%
i386-5-full	0.8%
i386-6-full	0.1%
i386-7-full	0.4%
i386-8-full	0.2%
ia64-6-full	0.3%
ia64-7-full	0.0%
sparc64-5-full	0.8%
sparc64-6-full	0.3%
sparc64-7-full	0.5%

0%   1%

Generated on Wed May 7 12:57:04 2008

Erwin Lansing erwin@FreeBSD.org 15-05-08

FreeBSD portmgr

Portsmon – Work In Progress

- track packages better
    - last time the package was correctly built
    - last time the package was built at all
    - when the package first became broken
    - package upload status (done)

 - visualize dependencies of ports that do not package
    - detailed view per-buildenv
    - historical trends over time

 - track maintainer-timeouts

FreeBSD portmgr
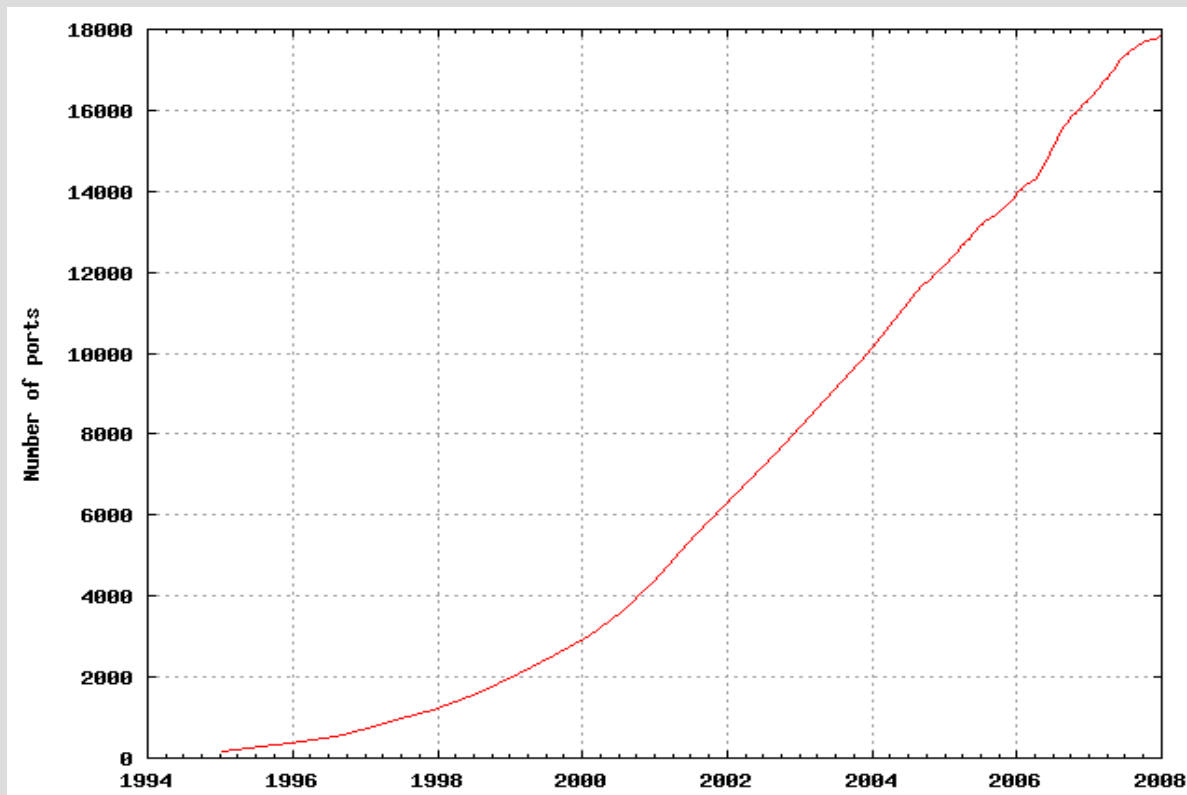
- **Maintainer cleanup**

- last major round of maintainer-timeouts before 6.3R
- many "under-maintained" ports remain

FreeBSD portmgr

- **Trends**

We are doing much better than we ever have at adding new-port PRs as they come in. The downside is that the number of ports continues to accelerate.
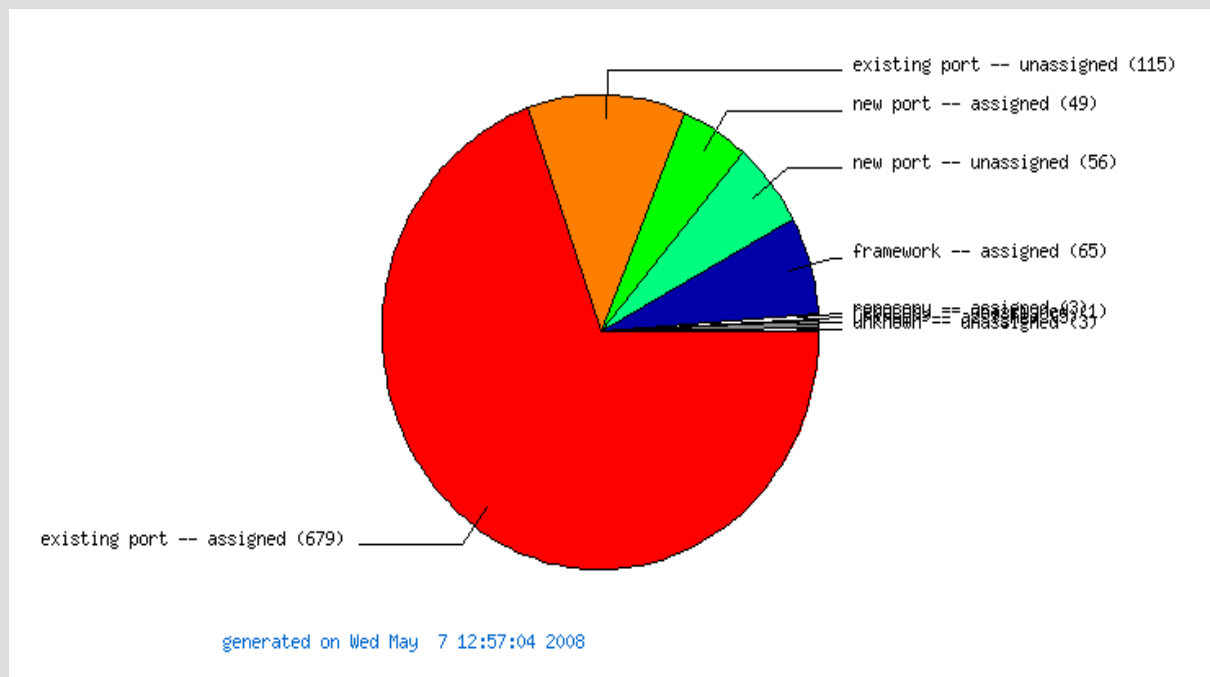

Erwin Lansing erwin@FreeBSD.org 15-05-08

FreeBSD portmgr

- **Trends**
- We are at a steady-state on port updates.
- We are not clearing the backlog of 'existing/assigned' PRs (70%). The maintainer-timeout policy is helping this.
- The number of portmgr PRs has decreased due to 12 major regression runs for bsd.*.mk.

existing port -- unassigned (115)
new port -- assigned (49)
new port -- unassigned (56)
framework -- assigned (65)
existing port -- assigned (679)

generated on Wed May 7 12:57:04 2008

Erwin Lansing erwin@FreeBSD.org 15-05-08

FreeBSD portmgr

Trends

Many other regression runs have been done:
- xorg 7.3/X11BASE changes
- removal of XFree86
- gcc update
- autotools
- pkg_*
- GNOME (external)
- KDE (external)
- DESTDIR
- bsd.perl.mk refactoring
- python 2.5
- QA of 6.3 and 7.0 release package sets

FreeBSD portmgr

- **Major projects**
-
- Upgrade of KDE to 4.0 (testing)
- Upgrade of autoconf
- Upgrade of gettext
- Upgrade of libtool
- 5.x support removed from bsd.*.mk
- 5.x support removal from individual ports
- perl 5.10
- Removal of expired ports
- pkg_*

FreeBSD portmgr

Google SoC ports projects
Project: Allowing for Parallel builds in the FreeBSD Ports Collection
Student: David Forsythe
Mentor: Mark Linimon

Project: Adding .db support to pkg_tools --> pkg_improved
Student: Anders Nore
Mentor: Florent Thoumie

Project: Ports license auditing infrastructure
Student: Alejandro Pulver
Mentor: Brooks Davis

FreeBSD portmgr

pointyhat

- more hardware available for amd64 and i386 (many thanks to ISC!)
- sparc64 in much better shape, but likely to be dropped due to limited resources
- ia64 no longer being tested
- 5.x EOL
- mirror synchronization

FreeBSD portmgr

Ports BOF:
2008-05-16 17h00 room H

- Do we need a fully feature package tool in the base, e.g. portmaster, or can we leave it in ports?

- smaller package sets (e.g. embedded, desktop)

- CVSROOT/modules

Erwin Lansing erwin@FreeBSD.org 15-05-08

FreeBSD portmgr

Links
- http://www.FreeBSD.org/ports/
- http://www.FreeBSD.org/portmgr/
- http://portsmon.FreeBSD.org/

http://people.FreeBSD.org/~erwin/presentations/

erwin@FreeBSD.org