

# pkgsrc

packaging and porting at joyent

# opensolaris @ joyent

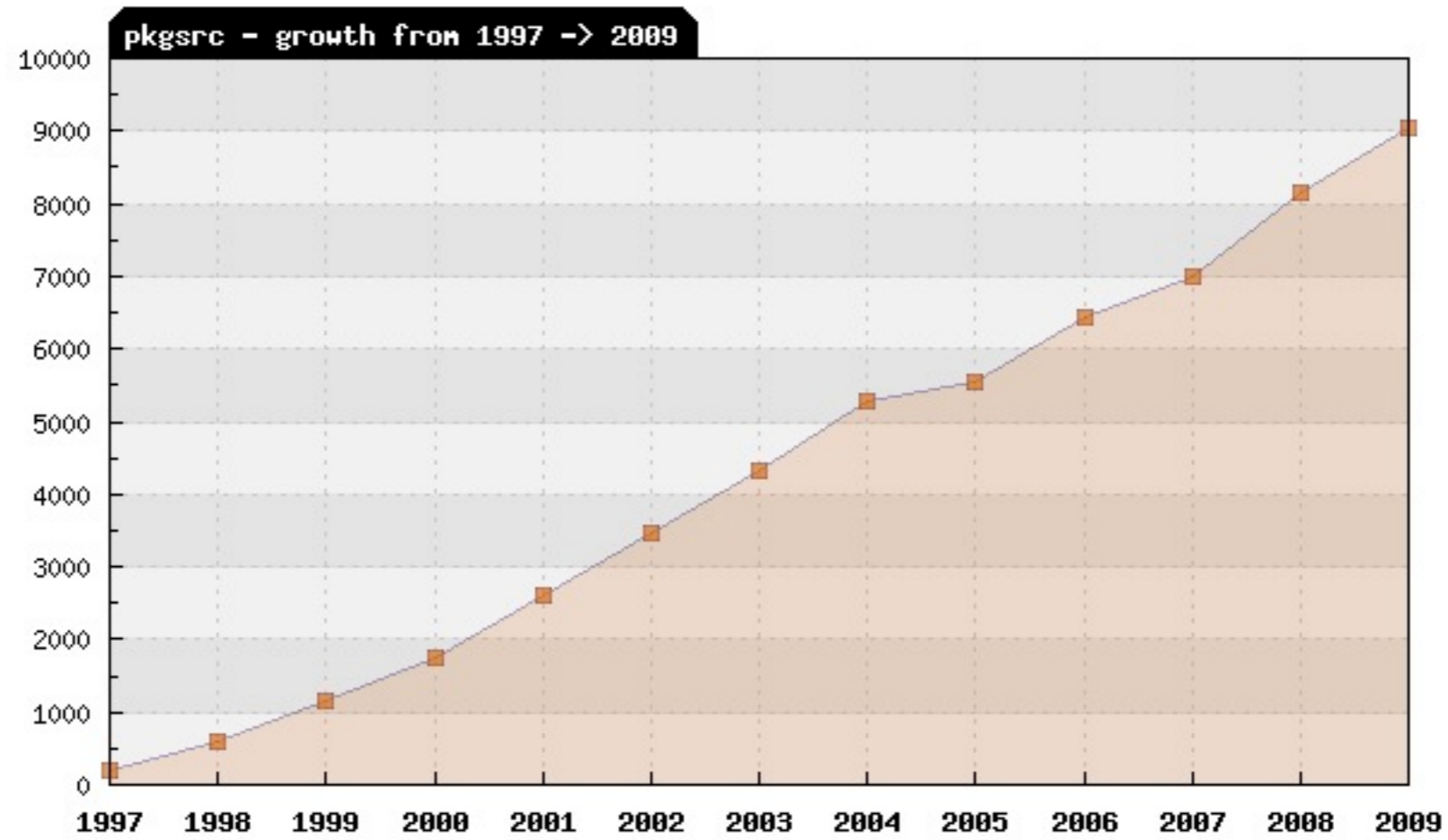
- launched september 2006
- 100000+ zones
- < 2% customers have used opensolaris
- **nevada** + joyent pkgsrc

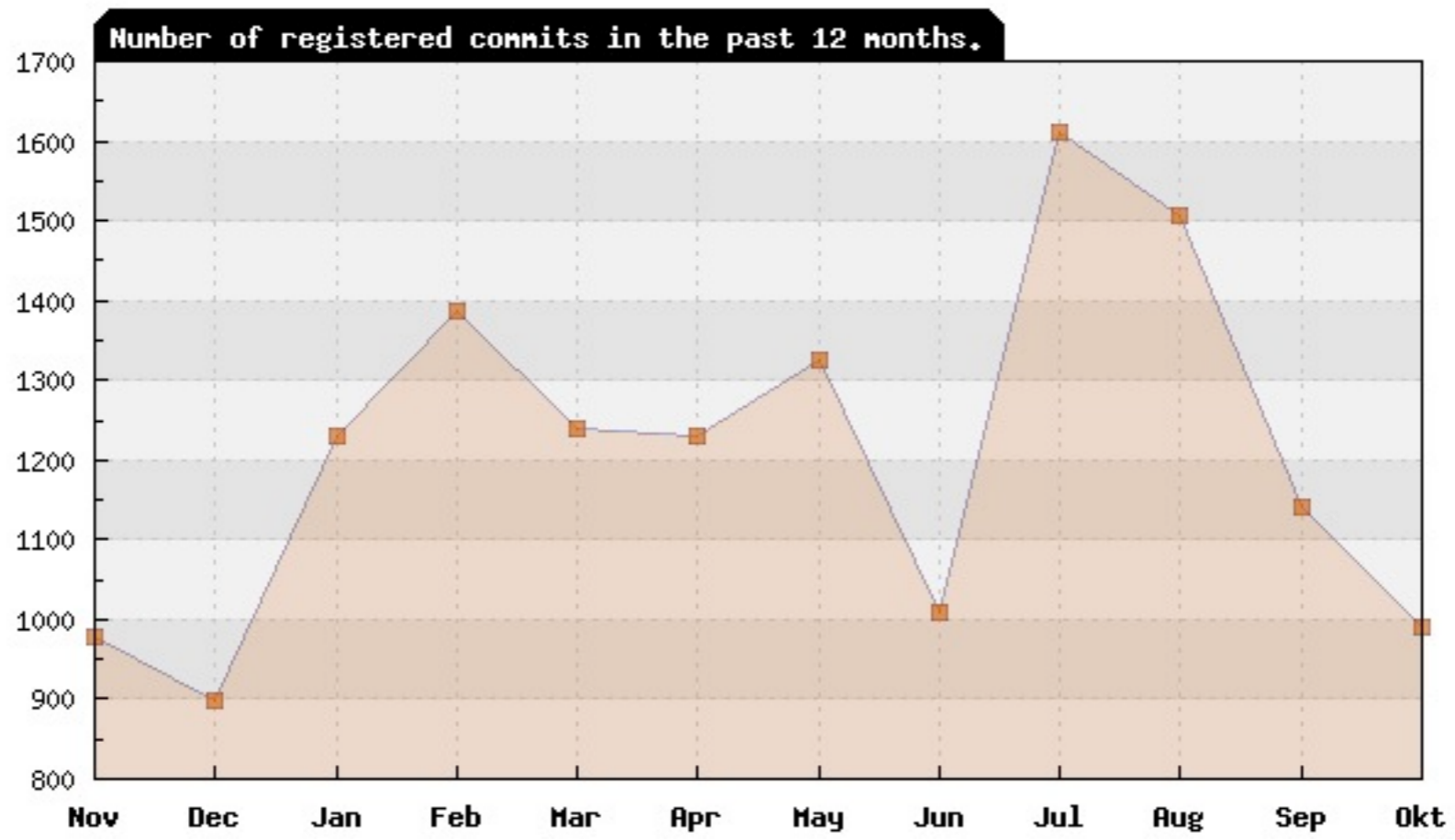
# core premise

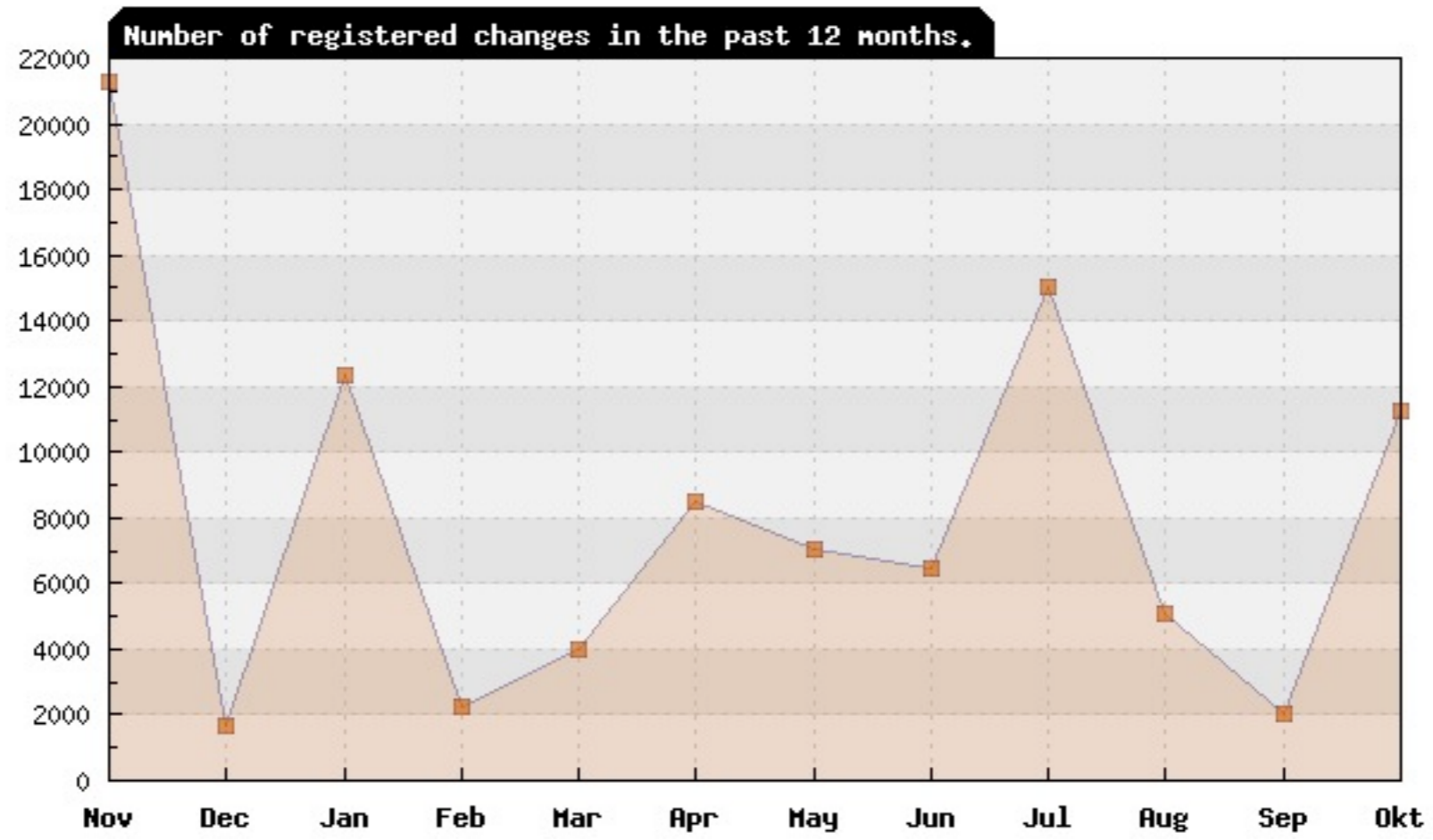
- *package distribution is not the challenge*
- building / porting more applications
- pushing changes upstream
- pkgsrc is focused on helping porters

# pkgsrc stats

- 11,000+ ports
- ~500 maintainers, 80 core developers
- solaris support for 10+ years
- a tradition of porting bad code!







demo by  
**filip hajny**



# pkgsrc “stages”

- fetch
- extract
- patch
- wrapper
- configure
- build
- install
- package
- clean

# Makefiles!

# pkgin vs. pkg\_\*

- Similar to apt-get vs. dpkg
- Allows for more efficient repo operations
- Simpler / reliable operations on pkg sets

# joyent involvement

- ‘git clone’ repo during quarterly freeze
- keep an external ‘vendor’ tree
- ~1000 packages in joyent repo
- Pre-install ~200 “core” packages

# feedback loop

- started with our own ports
- submitted patches to maintainers
- package submissions to WIP
- submissions to mainline

# zfs deployment

- versioned “master” datasets
- zfs send across machines
- shared read-only across zones on-box

# next steps

- better integrated SMF support
- multi-architecture (64/32)
- IPS package generation

# more!

- <http://discuss.joyent.com>
- <http://www.joyent.com/pkgsrc>