

BSDCan ports summit



**Ports and packages summit
BSDCan 2011**



Agenda

9:00 - Introduction and current state (erwin 15 min)

9:15 - Athena project (kaduk 15 min)

9:30 - Issues with current system (ploser 10 min)

9:40 - brainstorm (erwin 50 min)

11:00 - break (10 min)

11:15 - pkgng (bapt@ 30 min)

11:45 - misc (45 min):

- Package cluster changes (flz 5 min)
- Packaging: A vision (wca 10 min)
- license framework (tabthorpe)
- Signed packages
- change of VCS?



Fixed issues

EOL policy

ABI/KBI

Package builds will use the oldest supported minor release within each major branch to ensure ABI and KBI backwards compatibility within each major branch, and support all minor versions of each major branch, including `-RELEASE` and `-STABLE`.

WIP



- pointyhats
- builds both used for building packages and QA
- infrequent builds
- hardware limitations
- number of nodes
- performance of head node



Known issues

- inconsistent OPTIONS throughout the tree
- distribution – ftp mirroring
- disk space
- syncing
- inconsistent package sets
- no concept of what is a “set”
- packages-x.y-release vs packages-x-stable
- no QA across ports, only individual ports
- manual log analysis
- package sets coupled with src releases

Package sets



- Consistent set of packages
- Upgrade between full sets
- Clear security and EoL support for whole set



Discussion

- Define “set”.
A full tree of packages at given RCS-id within a given major branch.
Requires: single, unique tree-wide revision ID
- Release frequency.
Weekly package sets.
Frequent enough not to need branching and pullups
- EOL policy for package sets.
Keep package sets for 3 months.
- EOL policy for FreeBSD releases/branches.
Keep current policy of following so@.
- FreeBSD Release packages.
re@ includes latest available package set at the time of release building.
- Package building cluster.
What needs to change? (set-id encoding, automated scheduled building).
- pkg_* tools.
What needs to change? (set-id checks, set upgrading).

FreeBSD portmgr



Links

- <http://www.FreeBSD.org/ports/>
- <http://www.FreeBSD.org/portmgr/>
- <http://portsmon.FreeBSD.org/>

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

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Next session



See you in SMD 428 13:00-14:30

- License framework
- Signed packages
- VCS