Portroach, OpenBSD distfile scanner

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http://portroach.openbsd.org/

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Outline

Introduction

History

Present

Future

Conclusion
[Introduction] Who am I?

- jasper@ since 2006
- ports
  - GNOME
  - Puppet
- OpenBSD/octeon
What is Portroach?

- distfile scanner
- HTML/JS frontend
- daily e-mail reminder
Why does it exist?

- I’m lazy
- Metrics
[History] Portscout

- FreeBSD project by Shaun Amott
  - portscout.freebsd.org
- Jaleous looks at it in 2012
Early OpenBSD support

- Initial "support" with make show
  - make -V foo -V bar didn’t work
- pull requests submitted to mm@’s repo
  - remain open to this day
- FreeBSD compat kept
Portroach

- Renamed to Portroach
- OpenBSD-only
  - no more XML datasource
  - Remove FreeBSD compat and quirks
- Rewritten frontend
  - JSON output (webscale!)
  - AngularJS
or, "How to improve Portroach in 100 commits"

- Spring cleaning
  - unused code
- Unreliable discovery method rewritten
  - SQLports
- Removed ports (finally!)
Site handlers

- Many new "site handlers"
  - BitBucket
  - CPAN
  - GitHub
  - Hackage
  - NPM
  - PEAR / PECL
  - PyPI
  - RubyGems
[Present] Impact

- Obvious Portroach sweeps
- Attention to dead wood
- 21 subscribers to daily reminders
  - 7 non-developers
Results

Total ports

OpenBSD ports - by year

Cur: 7543  Min: 7244  Avg: 7459.98  Max: 8643
Outdated: 1263  0  1590.38  1960

Last update: Thu Oct 1 01:55:13 2015

Munin 2.0.25
Outdated ports
PORTROACH and PORTROACH_COMMENT

- portroach is not omniscient or perfect
  - PORTROACH
  - PORTROACH_COMMENT
PORTROACH and PORTROACH_COMMENT

- portroach is not omniscient or perfect
  - PORTROACH
    - PORTROACH=limitw:1,even
    - PORTROACH=limit:^1\.15
  - PORTROACH_COMMENT
Obtaining Portroach

- OpenBSD package
  - pkg_add portroach
- GitHub
  - git@github.com:jasperla/porttroach.git
Running Portroach

- portroach.conf
  restrict maintainer = 'jasper@openbsd.org'
Running Portroach (cont.)

- Setup database (see portroach(1))
- portroach (re)build
- portroach check
- portroach generate
Running Portroach (cont.)

- (re)build database
- spawn N threads
- each crawl...
- ...and crawl...
- ...and report back
Interfacing with Portroach

- Webfrontend
  - portroach.openbsd.org
- JSON "api"
- get_outdated by afresh1@
- cl-portroach
CommonLisp interface to portroach.openbsd.org:

CL-USER> (portroach:print-summary)
"outdated_percentage" => "16.70"
"total_outdated" => 1260
"total_ports" => 7545
NIL
CL-USER>
CL-USER> (portroach:new-ports-for "jasper")
(("devel/libgtop2" . "2.32.0")
 ("sysutils/facter" . "3.1.0")
 ("textproc/elasticsearch" . "1.7.2"))
CL-USER>

- https://github.com/jasperla/cl-portroach
- Not available via Quicklisp yet
[Future] Outstanding tasks / ideas

Ongoing tasks

- Coverage
  - ports
  - scanning
- Version comparision
Plans

- DPB integration
- Improved frontend
  - category view (pkgpaths)
  - broken / unresponsive master sites
- Proper tests
OpenBSD distfile scanner
- originated from FreeBSD’s portscout
- web-fronted and JSON "API"
- site handlers
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Questions?