

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

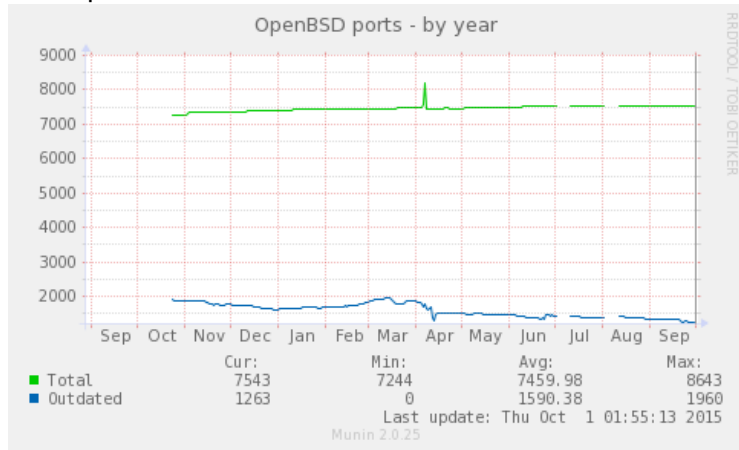
- ▶ Many new "site handlers"
 - ▶ BitBucket
 - ▶ CPAN
 - ▶ GitHub
 - ▶ Hackage
 - ▶ NPM
 - ▶ PEAR / PECL
 - ▶ PyPI
 - ▶ RubyGems

[Present] Impact

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

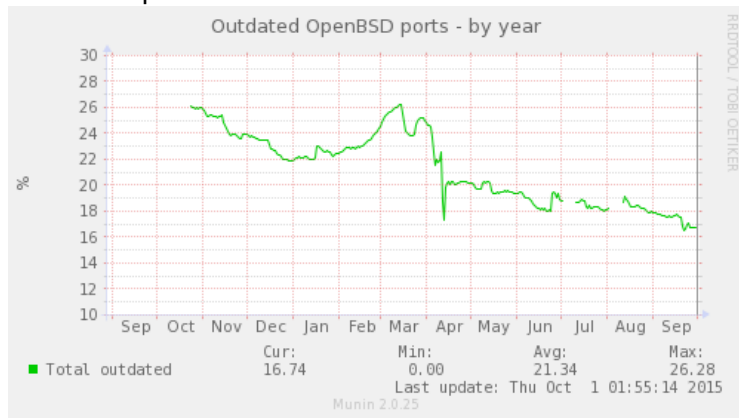
Results

Total ports



Result (cont.)

Outdated ports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/portroach.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 w/ 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-portroach (cont.)

```
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 comparison

Plans

- ▶ DPB integration
- ▶ Improved frontend
 - ▶ category view (pkgpaths)
 - ▶ broken / unresponsive master sites
- ▶ Proper tests

[Summary] Portroach

- ▶ OpenBSD distfile scanner
- ▶ originated from FreeBSD's portscout
- ▶ web-frontend and JSON "API"
- ▶ site handlers

Thanks

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Q & A

Questions?