

# 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

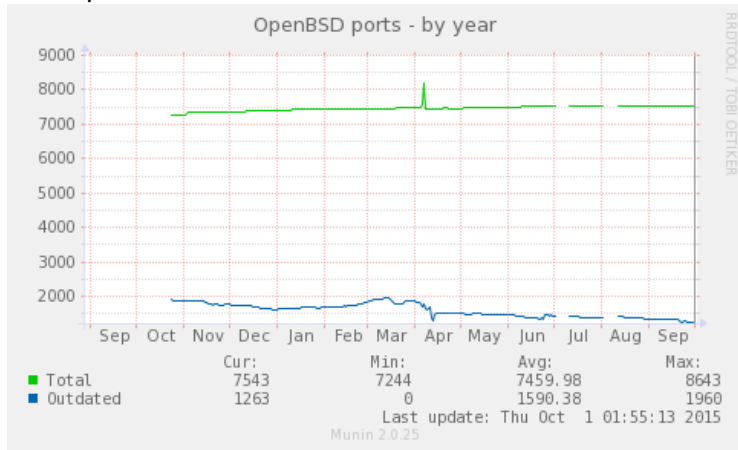
- ▶ Many new "site handlers"
  - ▶ BitBucket
  - ▶ CPAN
  - ▶ GitHub
  - ▶ Hackage
  - ▶ NPM
  - ▶ PEAR / PECL
  - ▶ PyPI
  - ▶ RubyGems

# [Present] Impact

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

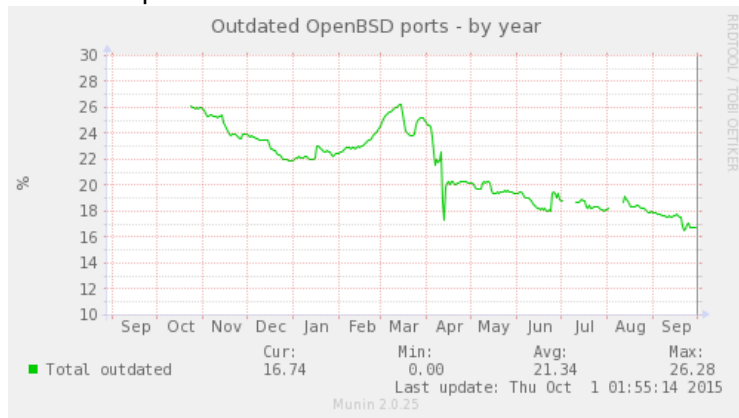
# Results

## 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## Outdated ports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

- ▶ Antoine Jacoutot (ajacoutot@)
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- ▶ EuroBSDCon organizers

# Q & A

Questions?