

Tune Your Ports Tinderbox!

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Motivation

Ports Tinderbox is very handy tool that is great for assuring quality of the packages one maintain. It would be nice to extend its capabilities with the following.

- ▶ It usually requires dedicated hardware, running a lot. Not everybody can afford this. Share it!
- ▶ Sometimes testing more ports at once would be desired. Mass test them!
- ▶ Sometimes testing ports with many dependants is required. Do an -exp run on your own box!



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Sharing a Ports Tinderbox (1)

- ▶ Basically, Ports Tinderbox itself supports more users.
- ▶ The open question here is how to handle the files, i.e. the ports trees and the options.
- ▶ Standard model: Give SSH access to the users, so they can login and manage their own ports trees.
- ▶ Proposed model: Build repositories for the ports and options that can be updated from CVS (daily), and provide access only for those.

Git has turned to be a good tool for building an *audited lazy network file system with SSH-based authentication and encryption* for this purpose.



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Sharing a Ports Tinderbox (2)

Using the git-based approach:

- ▶ Get the ports tree:

```
$ git clone -b FreeBSD-$user ssh://serv.er/tb/ports/
```

- ▶ Synchronize the ports tree:

```
$ git pull
```

```
$ git merge origin/master
```

- ▶ Work with the ports *off-line*.

- ▶ Upload changes:

```
$ git commit -a
```

```
$ git push
```

- ▶ Enqueue the port for testing.



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Testing More Ports

There are two scenarios when it might be important to test more ports at once (without requiring too much work to prepare).

- ▶ Testing many ports on many different configurations. No logical connection is required, only a list of ports to be tested.

Proposed solution: *"Mass Testing"*

- ▶ Testing dependant ports of a critical port to be modified. Run a special version of the standard `-exp run` to work with only the ports that are affected by the given change.

Proposed solution: *"Shortened -exp Run"*



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Poor Man's -exp Run

- ▶ It is important to test *not only the port itself*, but all of its dependants, including the indirect ones. Thus let us apply some math to get the best test coverage for the port.

(More will be revealed at EuroBSDCon :-))

- ▶ It makes possible to do -exp runs on *only one* machine.
- ▶ For example, testing ftp/curl needed only *2,000 packages* (10% of total) to be built that took *64 hours* to test for a *single* quad-core box with memory file system.



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Thank you for your attention!

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