Download manager service for ports collection

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What?

A mirror aware download manager for fetching the dist files in the ports collection.

- Mirror profiling
- Duplicate requests
- Checksum verification
- Status dump

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Why?

- No good way to pick a mirror
- Cap max number of simultaneous downloads
- Torrents
- Speed restriction

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How?

- dms(daemon)
- dmget(client)
- dms workers handle requests using libfetch
- status updates to client
- checksum verification

How?

Mirror profiling

- ▶ try untried mirrors
- ▶ samples the download speeds
- ▶ average all the samples collected in last week or last 1024 samples, whichever is minimum
- ▶ rank the mirrors
- ▶ make remarks incase of a failed attempt

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How?

Dealing with duplicate requests

- ▶ simultaneous
- ▶ very recently requested requests

Status dump option

- ▶ active downloads (speeds, ETA)
- ▶ mirror profiles

Capsicum blues

- sandbox the worker?

```
FILE *fetchXGet(struct url *url, char *flags);
```

- Keep reading the data from the open fd
- Header parsing
- Redirection

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What's next?

- Not stable, needs more testing and cleaning up
- Capsicum integration
- Torrent support
- Speed restriction

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Thank you for your attention!
questions?