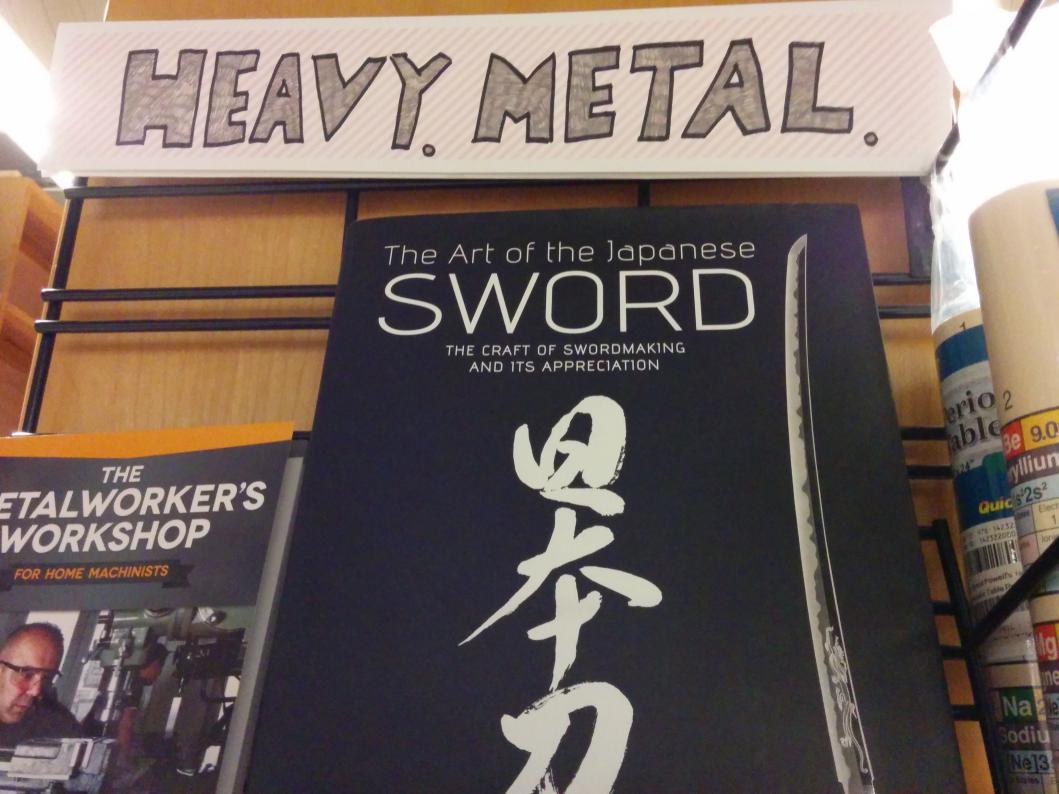
Try

find & improve some bottleneck in Debian project

Hideki Yamane <henrich @ debian.org>



 There are a lot of issues among Debian project, so we need MORE contributors to fix it. But - how do we get more contributors?

 As process management (Theory of Constraints), it says "most of issues are caused by "bottleneck"". If we would fix it "bottleneck", then many issues will be gone (wow!:)

• In this session, I want to share my view/idea to find and fix bottleneck in Debian and get feedback.

\$ find /debianproject -name bottleneck -print

- NEW queue
- all NEW packages should be reviewed by ftpmasters to get into repository
- ftpmasters should check whole package, then accept or reject it
- it takes many days (2,3 or 4 months, now)

wrong assumptions

- all NEW packages should be reviewed by "(only)" ftpmasters to get into repository
- ftpmasters should check "whole" package, then accept or reject it
 - if some reliable person would review package and check its review, isn't it enough?

Do NOT Burden with Yourself, please

 We are all project members, probably we can help you a bit :-)

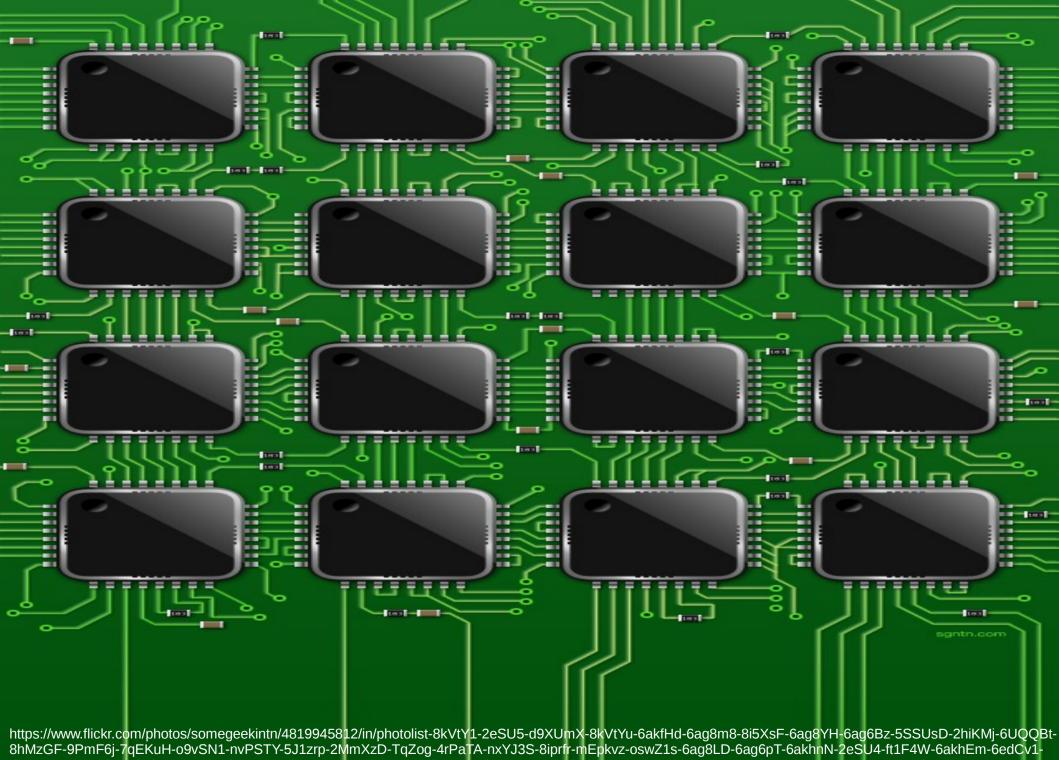


add "preprocessor" for NEW queue

- review by contributors
 - -> can reject obvious fault earlier
- Improve "upload -> check -> reject -> fix -> reupload" cycle
 - don't need to wait for 2 or 3 months to be rejected;)

from serial to parallel

- "serial" process by ftpmasters (several)
 - -> "parallel" process by contributors (hundreds)
- faster (we're multi-core monster machine! :)
- less load average (pressure) for each worker



8hMzGF-9PmF6j-7qEKuH-o9vSN1-nvPSTY-5J1zrp-2MmXzD-TqZog-4rPaTA-nxYJ3S-8iprfr-mEpkvz-oswZ1s-6ag8LD-6ag6pT-6akhnN-2eSU4-ft1F4W-6akhEm-6edCv1-dP3YVE-mEpcdc-cFh4jq-JtRZr-6oubZ5-6uTLfW-7SMLXX-7qLVHY-8kHeVC-dcy51L-4aqSpf-8ET64m-6uTKX7-2MrnKS-7xbpVv-2WRoST-5pNG4M-dcy4Ev

contributors = buffer cache

- stable output
 - review process speed would NOT depend on ftpmasters workload by adding buffer cache

what ftpmasters should do?

- collect reviews from contributors and say "Go/Nogo(need-more-review)" to uploaders and contributors who reviewed it
 - maybe mailing list is better to share "howto" knowledge and make teach some patterns for review

reason why it's restricted to ftpmasters?

- Guess: probably because of "distribute" risk
 - copyright violation, patent, etc...
 - then use GPG encryption
 - first, for only @debian.org address is in keyring is ok
 - it's already "trusted" person. then expand to others...

If we do it, what is expected to happen?

- Make unstable more attractive for developers
 - All your software are belong to us:)

review contributor

 if they would be well trained, maybe would be future ftpmasters/assistants (more improvements:)

how to check it's success (or not)

Statics:
daily package numbers and
average days for stay in "NEW" queue

love :-)

