The State of OpenAFS

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HELMHOLTZ | GEMEINSCHAFT

DESY

Disclaimer & Agenda

> This is not an OpenAFS Status Report

> It's not even an "official" OpenAFS presentation

> It's just a a collection of public facts

   ■ + interpretation & thoughts

> Agenda:

   ■ Current activity

   ■ Trends

   ■ Problems

Current activity

> Stable releases

- more or less regular

> 2016-04-16	1.6.18pre1	maintenance
> 2016-03-16	1.6.17	security
> 2015-12-17	1.6.16	maintenance
> 2015-10-28	1.6.15	security
> 2015-09-23	1.6.14.1	platform support
> 2015-08-13	1.6.14	maintenance
> 2015-07-30	1.6.13	security
> 2015-06-26	1.6.12	maintenance
> 2015-04-14	1.6.11.1	platform support
> 2015-03-02	1.6.11	maintenance
> 2014-10-24	1.6.10	maintenance
> 2014-06-12	1.6.9	security

- looks healthy, doesn't it?

> 1.6 releases are cut from the stable-1_6_x git branch

> There are two other active branches:

- devel-1_7_x

  > actually the "stable" branch for MS Windows releases

  > stalled

- master

  > Any new code has to be checked in here first

  > Will eventually be branched to stable-1_8_x

    - next stable release series
    - needs consolidation
    - ETA: ~Christmas – for years

  > Next big feature to land on master after branching off 1.8 is rxgk

    - or was?

> There are four persons left who contribute steadily
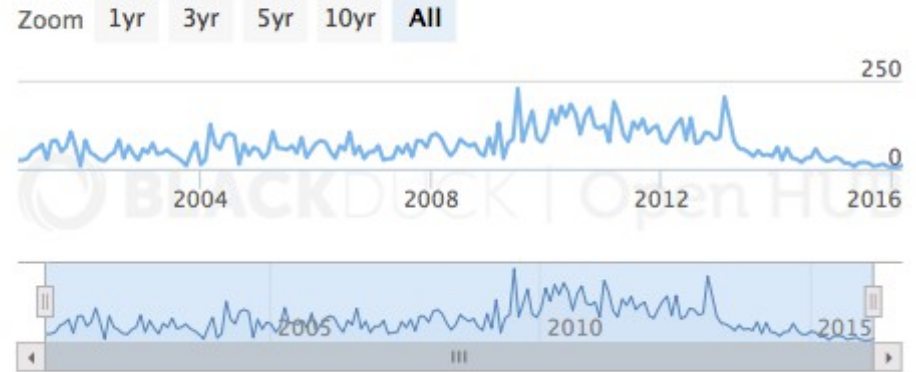
- and a handful who contribute occasionally

Activity

30 Day Summary
Mar 17 2016 — Apr 16 2016

5 Commits
4 Contributors

12 Month Summary
Apr 16 2015 — Apr 16 2016

130 Commits
Down -218 (62%) from previous 12 months

19 Contributors
Down -6 (24%) from previous 12 months

Commits per Month

Zoom 1yr 3yr 5yr 10yr All

Community

Ratings

9 users rate this project:
★★★★★ 4.9/5.0

Click to add your rating
☆☆☆☆☆

Review this Project!

Most Recent Contributors

...ey Eric Altman   Stephan Wiesand

Michael Meffie   Benjamin Kaduk

Mark Vitale   Marcio Barbosa

Contributors per Month

`https://www.openhub.net/p/openafs/`
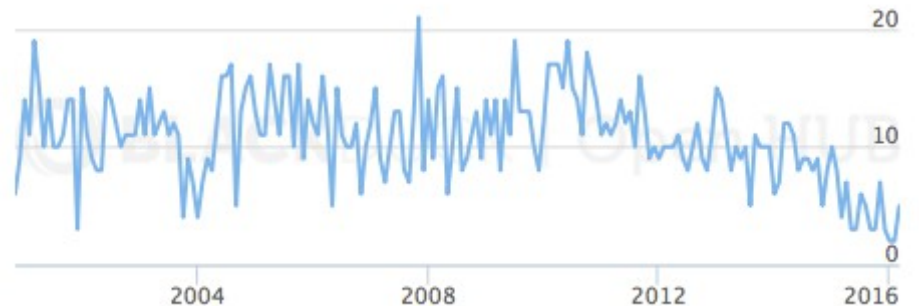
> Dwindling number of contributors and contributions

Contributors: Listing

Analyzed 1 day ago. based on code collected 1 day ago.

Showing page 1 of 14   Search / Filter on: Sort by: All Time Commits

Name	Kudos	12 Month Commits	All Time Commits	5 Year Trend	Primary Language	First Commit	Last Commit
Jeffrey Eric Altman (OpenAFS Gatekeeper. Developer, Elder Emeritus)	9	34	3496		C	over 12 years ago	about 1 month ago
Daria Phoebe Brashear (Elder, Gatekeeper, Developer)	9	1	1903		C	over 15 years ago	8 months ago
Simon Wilkinson (Inactive)	9	0	1396		C	about 9 years ago	over 1 year ago
Andrew Deason (Inactive)	9	2	1006		C	about 10 years ago	9 months ago
Marc Dionne	9	8	392		C	almost 14 years ago	9 months ago
Michael Meffie (Inactive)	8	19	304		C	almost 7 years ago	about 1 month ago
Russ Allbery (Developer)	9	0	294		C	almost 15 years ago	almost 3 years ago
Chas Williams (Inactive)	8	7	288		C	over 15 years ago	4 months ago

> Many significant long term contributors are no longer active

Problems

> The decreasing number of commits isn't that alarming

- The master branch is being stabilized for 1.8

- Open Hub doesn't show the stable branch

> The decreasing number of contributors is

- Getting new code reviewed has become a real problem

  > Getting new code fixed if review shows it's necessary is even harder

  - Without this, it can't go in
  - Slows down development on master and stable branch

> Code skew between master and stable has become significant

> We recently lost the developer who kept the Linux client afloat

- No successor

The Linux Client

> Significant effort required to keep up with the Linux kernel

- Changes affecting the OpenAFS client with almost every release
  - > ~ every two months, see this presentation from the last workshop:

    http://workshop.openafs.org/afsbpw15/talks/thursday/dionne-linux-openafs-v2.pdf

> No OpenAFS release yet with support for Linux 4.4

- Nobody working on supporting Linux 4.5, and 4.6 is due soon

> No immediate problem with Enterprise Linux Distributions

- RHEL & clones, probably SLE, debian stable

> Real problem with others

- Fedora, Ubuntu - even Ubuntu LTS
  - > changes backported within weeks
  - > no stable client yet in 14.04 LTS & 16.04 LTS

Other Platforms

> ## MS Windows

- ■ End of the the road ahead (?)
- ■ Auristor installer "available soon"

> ## OS X

- ■ 3rd party installers available from SNA, Auristor
- ■ Code supports recent releases
    - > still some headaches
- ■ Packaging support in the pipeline

> ## Solaris

- ■ still being maintained

> ## *BSD

- ■ being maintained (but limited client maturity?)

> ## IRIX

Summary

> The project is still alive

- The foundation is working on its future

    > recently appointed new security officer + deputies

    > legal work required to sign client installers

> But several problems due to lack of manpower

- The next stable release series is overdue

- rxgk is overdue

- The client is no longer coping with Linux kernel changes