Supporting the FreeBSD Community
World Wide for Over 14 years

The FreeBSD FOUNDATION

Upcoming Events

FOSDEM '15
Jan. 31-Feb. 1, 2015
Brussels, Belgium

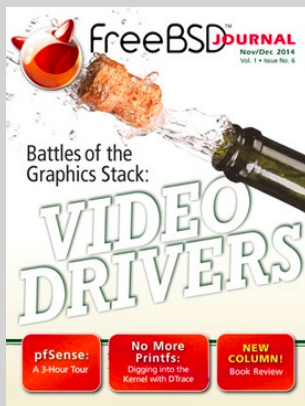**USENIX FAST '15**
Feb. 16-19, 2015
Santa Clara, CA

SCALE 13x
Feb. 19-22, 2015
Los Angeles, CA

AsiaBSDCon 2015
March 12-15, 2015
Tokyo, Japan

FreeBSD Journal

The Nov./Dec. issue of the *FreeBSD Journal* is available! Don't miss articles on video drivers, pfSense, and more. Not a subscriber? Sign up today!

See what others are saying about the Journal:

Message from the Executive Director

Dear FreeBSD Community Member,

January is that exciting time of year where everything feels new again. It radiates with opportunities and allows us to embark on plans to make this year the best one yet. Here at the Foundation, we are using that energy to get a running start in a number of areas. Our Project Updates continue to show great progress in key areas such as arm64. We've kicked off our 2015 fundraising campaign(our most ambitious to date) and we're launching a new series of articles. Plus, our conference calendar is quickly filing up and includes more new events. 2015 is shaping up to be an awesome year for the Foundation and FreeBSD Community. We can't wait to show you what's in store. Until then, take a minute and check out all that's happened since our last update.

Happy New Year!

Deb

Development Projects Update

Since our last update we've made good progress on a number of different Foundation-sponsored projects. We'll start with the FreeBSD/arm64 project, porting FreeBSD to ARM's 64-bit architecture. This project is a collaboration between the Foundation, ARM, Cavium, Andrew Turner and Semihalf. Since the previous update a new emulation target has been added: FreeBSD/arm64 now runs in QEMU's 64-bit ARM system emulation mode. QEMU is open source and supports several host platforms, making it much easier to start exploring the port.

We just installed our Cavium ThunderX reference platform, allowing us

to test and finalize work on the hardware-specific drivers.

A migration to utilities from the ELF Tool Chain is in progress. This provides an update for some of the older GNU tools currently in the FreeBSD base system, and also adds needed support for arm64.

Foundation staff member Konstantin Belousov developed the process reaper facility, which allows a process to reliably track the running and exiting state of entire subtrees of its children. Modeled on similar features in DragonflyBSD and Linux, it will allow tools to reliably prevent runaway processes.

Edward Napierała added support for removable media to the new automount daemon. Edward also completed some groundwork on the Secure Boot support project. We'll have a separate, detailed report for each of these projects in the near future.

Finally, we acquired an IBM POWER8 reference machine in order to support the FreeBSD community's effort in extending FreeBSD PowerPC support to this updated architecture.

--contributed by Ed Maste

FreeBSD Foundation Team: Coming to a Conference Near You!

The Foundation is excited to take part in a number of events in early 2015. If you're heading to FOSDEM in Brussels, Belgium, January 31-February 1, please take a minute to stop by the BSD Developer's Room to chat with other FreeBSD folks. You'll also have a chance to check out what the Foundation has been up to. Next, you will find us at the USENIX FAST '15 conference in Santa Clara, CA, February 16-19. This will be our first visit to FAST and we look forward to meeting with this vibrant community. Directly after FAST, we head to Los Angeles for the SCALE 13X conference. Be sure to stop by Booth #20 to get the latest from the Project and the Foundation.

FreeBSD From the Trenches

We're beginning a series of stories to help FreeBSD users with tips, tricks, and the ever helpful "what not to do". Our first story, Failure with freebsd-update; How Not to Upgrade Your Systems comes from Dan Langille. We hope this *From the Trenches* series will provide helpful insight and occasionally a good

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Why Choose FreeBSD?

"When Xinuos sought a mature and stable operating system with a modern feature set as an alternative for its installed base of clients, FreeBSD stood out as the obvious choice. OpenServer X, our version of FreeBSD, is what our customers require for running their business and Xinuos will support them for many years to come.

Our resellers especially appreciate the freedom of the BSD license, which provides the best flexibility in the industry for creating customized solution stacks.

We expect the market for this license freedom and flexibility to grow tremendously in the coming years and we intend to help drive and support it. FreeBSD is a vital part of our future.
-- Sean Snyder, President & COO, Xinuos

laugh. If you have a story you'd like to share, please [email](#) us.

Fundraising Update: 2015 Fundraising Campaign Kickoff!!

I love January, when I can take a short break from the crazy (but exciting) end-of-year fundraising efforts that seem to take over our lives. As I reflect on 2014, I'm overjoyed with not only our amazing fundraising results, but what we accomplished over the year to help grow FreeBSD.

First, I'd like to thank everyone who supported FreeBSD in 2014 by donating to the Foundation. We couldn't have accomplished as much as we did to support the FreeBSD Project without your donations.

We have not finalized our 2014 fundraising numbers yet, but we are close. As of today, we raised $2,395,445 from 1681 donors, far exceeding the financial goal we set out to reach at the beginning of the year. Near the end of the year, we changed our focus to our goal of 2000 community investors. It's important to show the community and world, that FreeBSD has a strong pool of community investors supporting the Project. Plus, it helps us show the IRS we are a public charity. We will post our 2014 financial reports by mid-February.

This year we set our fundraising goal to raise $1,250,000+ from over 2000 community investors. We created a spending budget of $1,250,000, which is a 25% increase from last year. The board approved putting 10% of the $1,000,000 donation we received last year in our budget. Most of this will go to project development and FreeBSD advocacy. The rest was put into our longer term investments to help keep us sustainable over multiple years. You can see our 2015 budget [here](#).

We've identified areas that we want to increase our support. Some of those areas are:

- Funding more project development, like improving the binary package build, distribution, and verification mechanism, improving automated testing, and updating development and performance analysis tools.
- Supporting and improving the FreeBSD security advisory triage, notification and release process.
- Increasing our FreeBSD marketing efforts. Efforts include providing more marketing literature to educate people on FreeBSD; recruiting more people to the Project; promoting FreeBSD and The Foundation; helping fundraise; and encouraging more testimonials. This not only includes assisting advocates in the US, but also offering this material in multiple

languages to FreeBSD advocates who represent the Project at conferences around the world.

- Helping create New to FreeBSD tutorials, presentations, and literature.
- Providing resources and travel grants to help get more FreeBSD representatives to conferences around the world to give presentations on FreeBSD.
- Funding more FreeBSD research projects.

We have a lot planned for the year. But, we need your help to be able to continue and increase our support to the FreeBSD Project and community. Please consider making a donation today. It is SO easy! Just click here.

Thank you for all your support. We couldn't do it without you!

-- contributed by Deb Goodkin

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