

Benefits of a local community of FLOSS contributors



July 23, 2019

FLOSS Competence Center (CCSL)

Its main goal is to encourage the development, research and use of free software inside and outside college.



Figure: CCSL building

FLOSS @ USP (FLUSP)

FLUSP's goals:

- ▶ Contributing to FLOSS projects
 - Learn with successful codes
 - Interact with communities
- ▶ Sharing knowledge
- ▶ Opportunities
 - GSoC/Outreachy
 - Jobs/internships
- ▶ Have fun!



Figure: Mr. FLUSP

FLUSP's values

Principles that rule the social interactions within our study group:

- ▶ Freedom of code and knowledge
- ▶ Horizontal organization
- ▶ Mutual sharing of knowledge
- ▶ Passing the baton
- ▶ Do-ocracy
- ▶ Review is as much important as development

Advantages of a local FLOSS community

Help for beginners

Developers may not know how exactly to get in contact with the community, or become apprehensive about sending their first contributions. Thus, we have:

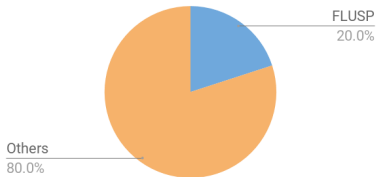
- ▶ Introductory material on the website
- ▶ Communication channels (e-mail, IRC, Telegram, Facebook)
- ▶ Mentorship
- ▶ Pair programming
- ▶ Internal revision

Motivation to keep on contributing

Consistent flux of contributions in the community.

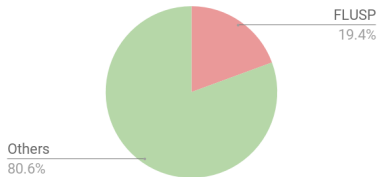
Contributions to linux-iiio

(from 2019-02-13 to 2019-04-02)



Contributions to linux-iiio

(from 2018-10-03 to 2018-11-17)



Help students get accepted in outstanding projects

Members accepted in renowned programs, such as Google Summer of Code (GSoC) and Outreachy



(a) GSoC



(b) Outreachy

Infrastructure for applications and projects

Donation from companies to the group's infrastructure (boards, virtual machines).



(a) Sensor boards



(b) Bootable boards

Figure: Hardware boards donated to FLUSP

Sponsorship at events



Network of contributors/friends



Figure: One of FLUSP's meetings

Network of contributors/friends



Figure: FLUSP members at a local hackathon event

What do we do?

Periodic Meetings

We gather weekly to

- ▶ Code for FLOSS projects
- ▶ Exchange experience/knowhow (passing the baton)
- ▶ Review patches
- ▶ Motivate newcomers to engage in free software projects
- ▶ Standup meetings
- ▶ Pair programming

Collaborative work

Jonathan Cameron <jic23@kernel.org>

para Thiago, Lars-Peter, Michael, Stefan, Hartmut, Peter, Greg, linux-iiio, devel, linux-kernel, Tiago, Pedro ▾

On Sat, 18 May 2019 19:42:13 -0300

Thiago Estrela <thiagestrela@gmail.com> wrote:

> Accomplish device tree compatibility to driver ADIS16203
> by adding of_device_id table and making a subsequent call to
> MODULE_DEVICE_TABLE.
>
> Signed-off-by: **Thiago Estrela** <thiagestrela@gmail.com>
> Signed-off-by: Tiago Napoli <napoli.tiago96@gmail.com>
> Co-developed-by: Tiago Napoli <napoli.tiago96@gmail.com>
> Signed-off-by: Pedro Sousa <pedroteosousa@gmail.com>
> Co-developed-by: Pedro Sousa <pedroteosousa@gmail.com>
> Reviewed-by: Matheus Tavares <matheus.bernardino@usp.br>
> Reviewed-by: Marcelo Schmitt <marcelo.schmitt1@gmail.com>
Another nice patch. Certainly seems like the dev day was
successful and welcome to so many new people.

Applied to the togreg branch of iio.git and pushed out as
testing for the autobuilders to see if we missed anything.

Thanks,

Jonathan

Figure: One of the patches we sent to IIO

Installfests



Figure: An installfest promoted at CCSL

Promove guest talks

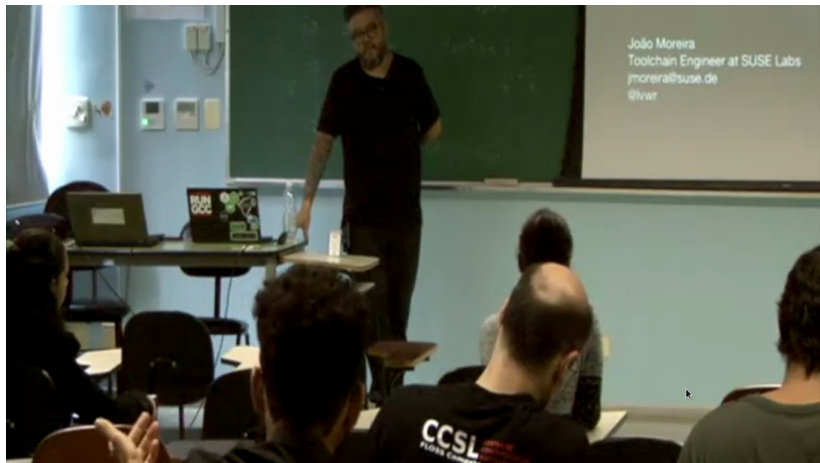


Figure: SUSE's toolchain engineer lecture at FLUSP's

Workshops



Figure: Git workshop for Computer Science freshmen

Collaborathons



Figure: Folks hacking at KernelDevDay. A "collaborathon" for the Linux kernel.

Participate at events



Recipe for creating a FLOSS group

Steps for creating a FLOSS user group at your university

- ▶ Find people willing to join the FLOSS world
- ▶ Join a community (Debian, Kernel, Git, GCC, others)
- ▶ Ask for help (on how to contribute)
- ▶ Be open-minded to other people's suggestions

Steps for creating a FLOSS user group at your university

- ▶ Team up with professors
- ▶ Make free software development a part of college classes
- ▶ Make a commitment. It's going to be a lot of work, but it's worth it!

Steps for creating a FLOSS user group at your university

- ▶ Do not be afraid of making mistakes and do not give up too soon
- ▶ Help and motivate one another
 - Review patches
 - Share materials
 - Study code together
 - Engage in pair programming
- ▶ Share what you've learned with others. Write your material, record videos, present speeches, etc.

Who benefits from this?

Everyone!

- ▶ Us
- ▶ Newcomers
- ▶ The university
- ▶ The community

Thank you!

Questions?