Training evaluation report

Training session: Embedded Linux Training
Training dates: Apr. 21-25, 2008 (5 days)

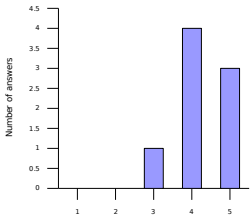
Number of participants: 10 to 15
Returned feedback forms: 8

Thank you for having organized a Free Electrons training session!
Here is a wrap-up of evaluations from participants.

Learning objectives

1. How well did the course meet your learning objectives?

Rating	Answers	Description
1	0	Not met
2	0	
3	1	
4	4	
5	3	Fully met

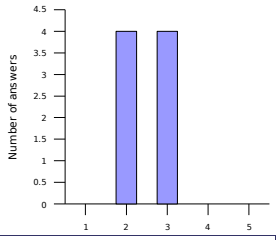


4 - Probably a little bit more about application creation.

4 - Almost everything. I did not learn everything, because it was my first Linux knowledge *(the first time I learn about Linux?)*, so I had no background.

2. How was the duration of the course?

Rating	Answers	Description
1	0	Too short. Couldn't learn enough in such a short time.
2	4	A little too short
3	4	Just fine
4	0	A little too long
5	0	Definitely too long. The concepts could be learned in much less time.



2 - I suggest to make 3rd day a little bit longer

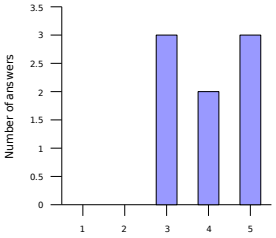
3 - It could last 1 or 2 more days, in order to actually use some hardware with simple application, such as toggle LED every certain time.

3 - Just fine in time, but too much info for this time.

Lecture materials

3. How helpful were the lecture materials?

Rating	Answers	Description
1	0	Not helpful. Made things more difficult to learn and understand.
2	0	
3	3	
4	2	
5	3	Really made things easier to understand and learn.



3 - There are some missing stuff that can be added, notes about what to remember between lectures, but the materials are excellent.

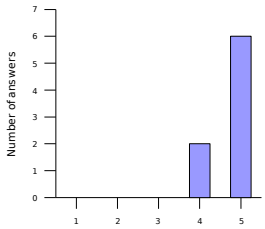
5 - Great material!!

3 - Good in information, but slightly confusing in structure: e.g. too long, few summaries...

4 - I don't know whether having extra comments for slides would help for self training.

4. Will you recommend these materials to others?

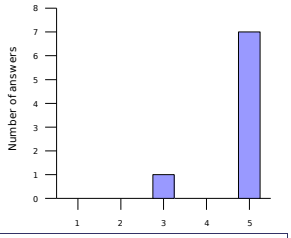
Rating	Answers	Description
1	0	No. Not helpful without following the sessions.
2	0	
3	0	
4	2	
5	6	Definitely



4 - Hard to find the needed info.

5. If you have Linux project opportunities, will you use these materials again?

Rating	Answers	Description
1	0	No. I will look for other sources of information.
2	0	
3	1	
4	0	
5	7	Definitely

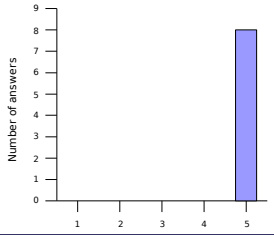


5 - I hope not, but every one needs documentation support. Maybe, I'll buy one of the recommended books.

Instructor added value

6. How knowledgeable was the instructor?

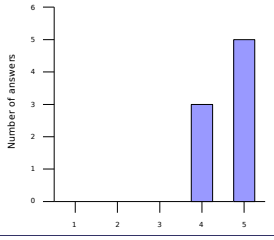
Rating	Answers	Description
1	0	Not enough for my own technical experience.
2	0	
3	0	
4	0	
5	8	More than enough for my own experience.



5 - Great job!!

7. Did instructor oral explanations add value to the lecture materials?

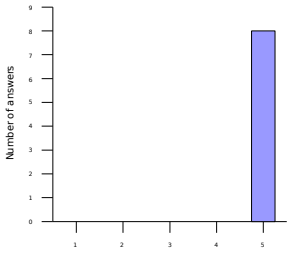
Rating	Answers	Description
1	0	No added value to reading the materials.
2	0	
3	0	
4	3	
5	5	Yes. The instructor really made very useful oral explanations.



5 - The show / examples can be slower, sometimes can not see what happens.
4 - Few concrete examples of “daily life” like mouse, ethernet...

8. How well did the instructor answer questions from the audience?

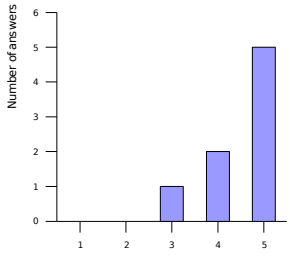
Rating	Answers	Description
1	0	Poorly. Didn't try to understand the questions well or rarely managed to find useful answers.
2	0	
3	0	
4	0	
5	8	Answered very well to questions from the audience



5 - Thomas does not know everything, but he knows hoe to find it!

9. Was the instructor helpful with practical labs?

Rating	Answers	Description
1	0	No, not enough available and helpful during the labs.
2	0	
3	1	
4	2	
5	5	Yes. The instructor definitely helped to make labs a learning opportunity.

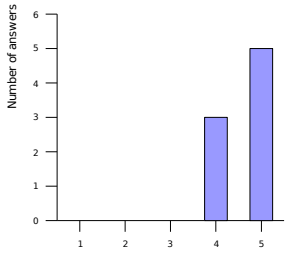


4 - Yes, but I mised kind of summary at the end of the labs about “what” we made and “why”.
3 - I would recommend: 1. All together labs at the end of the end of every lab. 2. A guide for the lab with instructions for self training: if you do have it, please mail it to rdealba - at - gmail dot com

Training labs

10. How useful were the training labs?

Rating	Answers	Description
1	0	Not useful. Didn't add significant value to the lectures.
2	0	
3	0	
4	3	
5	5	Very useful. Helped to highlight things not understood and build useful experience.

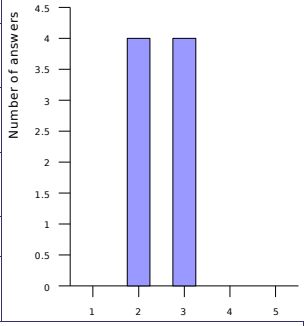


5 - Helpful to land all the concepts.

4 - A lot of downloading stuff -> eats time. The same with looking for download - homepages *(note: 2nd sentence not understood... did the person mean "already downloaded" stuff?)*

11. How difficult were the training labs?

Rating	Answers	Description
1	0	Too difficult. Didn't help or even discouraged a beginner to get more familiar with the tools and concepts.
2	4	A bit too difficult. Would be better if the lab instructions gave a bit more details about explanations.
3	4	Just fine. Prompted me to look for answers, get my own experience and find my own solutions.
4	0	Too easy for my own technical level.
5	0	Too easy for everyone. Should challenge participants more and help everyone to practice on real issues.



3 - But, sometimes it will be better if you can solve the lab *(note: give solutions?)* just to make sure that we did the right thing.

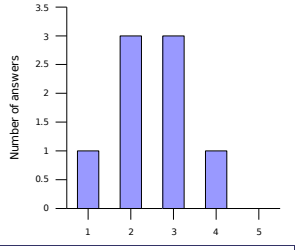
2 - They were just fine, but I found them difficult because of my lack of experience.

4 - Some times a lot of "just-typing"stuff. *(Note: most commands were available in ready to run files or ready-to-use source files. But it's true there are still a few things that have to be typed).*

2 - Please provide the "answers" *(solutions?)*. rdealba - at - gmail dot com

12. Was enough time dedicated to the practical labs?

Rating	Answers	Description
1	1	No. More practice is needed
2	3	A little bit more time would help.
3	3	Just fine
4	1	A little bit less time would be enough.
5	0	Don't need to spend so much time on labs. On-the-job practice is best

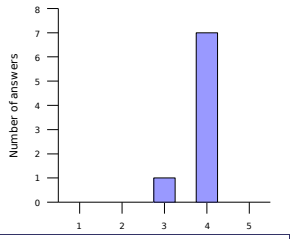


1 - Definitely more practise is needed, to not just "do" it but to have time to investigate "what" you are doing.

Training conditions

13. How do you rate training conditions (room size, equipment, environment...)?

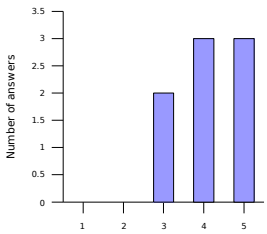
Rating	Answers	Description
1	0	Poor.
2	0	
3	1	
4	7	
5	0	Very good.



4 - Network issues
4 - The only problem was the network but it wasn't your problem.
4 - The network connection was pretty bad.
4 - Good.
4 - Cold!!!

14. How do you rate the training equipment (mainly computers)?

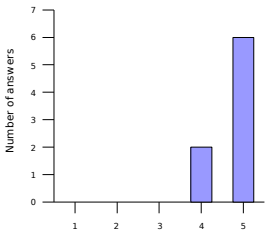
Rating	Answers	Description
1	0	Poor. Not powerful enough to execute practical labs.
2	0	
3	2	
4	3	
5	3	Very good. Very little time waiting, more time learning.



5 - For me it was OK because I have Linux
3 - Fine
4 - Ethernet bad.

15. How well was the course organized (program, registration, meeting the schedule...)?

Rating	Answers	Description
1	0	Not well
2	0	
3	0	
4	2	
5	6	Very well

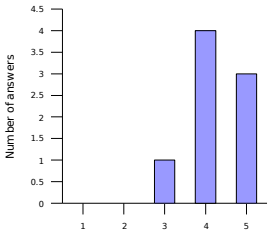


5 - Awesome.
4 - Good.

Overall rating

16. How much did you learn?

Rating	Answers	Description
1	0	Definitely not much
2	0	
3	1	
4	4	
5	3	Definitely more than I expected.

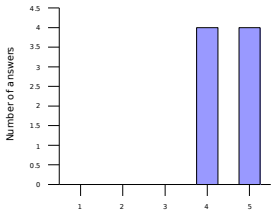


5 - It was an amazing training!!!

4 - I learned a lot, but I expected more. i was not a problem caused by the training, but by myself, I should have prepared with the basics.

17. How useful will this course be in your daily job?

Rating	Answers	Description
1	0	Not useful.
2	0	
3	0	
4	4	
5	4	Very useful. Will make my job easier and more productive.

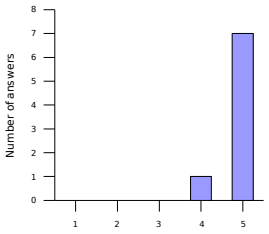


5 - Without this training I was lost in finding the right places / documentation / support for me to start. Great starting point!!

4 - Useful.

18. Would you recommend this course to others?

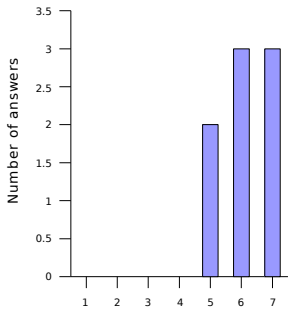
Rating	Answers	Description
1	0	No.
2	0	
3	0	
4	1	
5	7	Yes, definitely



5 - Of course!

19. Overall rating

Rating	Answers	Description
1	0	Very disappointing
2	0	Disappointing
3	0	A little bit disappointing
4	0	OK
5	2	Pretty good
6	3	Very good
7	3	Excellent

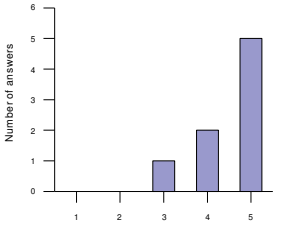


7 - Increase the duration of the training to 2 or 3 weeks :-)

5- I see a big need to improve the .pdf file. 1 - More well designed charts instead of text. 2 - More structure. 3 - Better and more examples.

20. An extra session?

Rating	Answers	Description
1	0	No
2	0	
3	1	Why not?
4	2	
5	5	Yes, definitely



5 - ALL OF THEM ! I mean it! :-) Thank you guys for everything!!! Jesus Gutiérrez.

4 - More basic Linux stuff.

Number of votes for topics in an extra session

Understanding the Linux kernel		Linux device driver development		Linux board support packages		Embedded system development		Miscellaneous needs	
Process management	1	USB device drivers	3	Processor specific code	1	Lightweight tools	1	Java	3
Filesystem implementation	1	USB host drivers	3	Board specific code	1	Embedded system development tools	2	Real-time	2
Memory management	1	PCI drivers	1	Board specific interrupt support code	1	Cross-compiling toolchains	1	Audio	4
Scheduling implementation	1	Network drivers	1	DMA support	1	Debugging solutions	1	Video	4
Bootstrap code	1	Block drivers	1	Bootloader development	3	Software development tools	1	uClinux	1
		Flash drivers	1			Programming with graphical libraries	1	Voice over IP	2
		I2S drivers	1			POSIX API	1		
		Input drivers	1			System optimization	1		
		Sound drivers	1			Root filesystem creation	2		
		Video drivers	1						

Free Electrons comments

Thanks to the (sometimes oral) suggestions from the audience, we will improve future training sessions...

- By giving solutions for all the labs at the end.
- By summing up what we did at the end of each lab, and why we did it.
- By adding more summaries and real-code examples in the lecture slides, and by adding more charts and diagrams.
- By making some sections shorter, to focus on the key things to remember.

- By providing notes along with the slides.
- By trying to find simple hardware (typically with leds) to write drivers for, instead of just using emulated systems.