Training evaluation report

Training session: Embedded Linux Training **Number of participants**: 16
Training dates: Nov. 27-29, 2007 (3 days) **Returned feedback forms**: 15/16
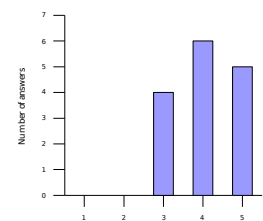
Thank you for having organized a Free Electrons training session!
Here is a wrap-up of evaluations from participants.

Learning objectives

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

Rating	Answers	Description
1	0	Not met
2	0	
3	4	
4	6	
5	5	Fully met

3 - Probably a bit too much of the very basic Linux stuff

5 - My previous knowledge of Linux in general was very poor. Now much better.

4 - More topics like debugging, profiling...

3 - Less lecturing, more action would be better.

3 - Little bit too basic for me, still many useful hints and techniques

2. How was the duration of the course?

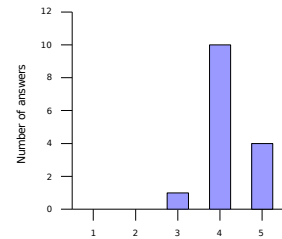| Rating	Answers	Description
1	2	Too short. Couldn't learn enough in such a short time.
2	5	A little too short
3	6	Just fine
4	2	A little too long
5	0	Definitely too long. The concepts could be learned in much less time.
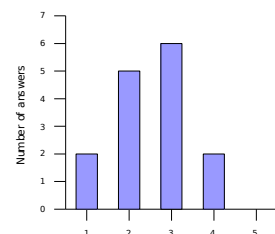
4 - The power management details at the end might be better to place somewhere else.

3 - I could have had more labs. Have to practice at home.

2 - Sometimes the slides seem to fly past a bit too fast. Also sometimes I'd like to have a bit more time with the labs.

2 - Maybe a little more time for training labs.

2 - Quite much new stuff in short time.

1 - But maybe the real world is the best training.

Lecture materials

3. How helpful were the lecture materials?

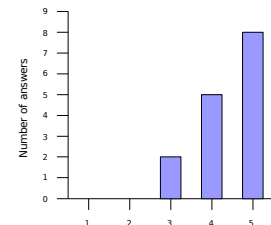| Rating	Answers	Description
1	0	Not helpful. Made things more difficult to learn and understand.
2	0	
3	1	
4	10	
5	4	Really made things easier to understand and learn.

5 - Excellent
4 - Materials supported well the presentation. Material alone might be insufficient for fully understanding.
4 - Good even as a reference, useful links.

### 4. Will you recommend these materials to others?

Rating	Answers	Description
1	0	No. Not helpful without following the sessions.
2	0	
3	2	
4	5	
5	8	Definitely

4 - See 3 *(materials may not be sufficient)*

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	0	
4	2	
5	13	Definitely
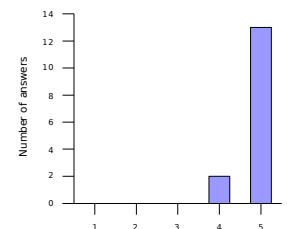
Instructor added value

6. How knowledgeable was the instructor?

| Rating	Answers	Description
1	0	Not enough for my own technical experience.
2	1	
3	1	
4	2	
5	11	More than enough for my own experience.
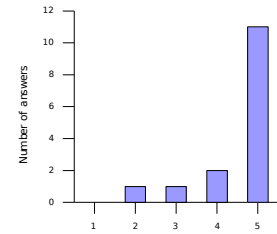
5 - At least for me without any embedded Linux experience.
5 - This kind of lecture and labs requires good knowledge from the instructor. I'm more than satisfied.
4 - Perfect.

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

Rating	Answers	Description
1	0	No added value to reading the materials.
2	1	
3	1	
4	7	
5	6	Yes. The instructor really made very useful oral explanations.
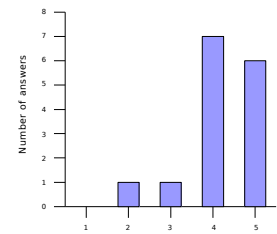
5 - Very good. The small YouTube sessions cheer up nicely :)
4 - Sometimes a bit too fast. Some issues were that I was unfamiliar with were assumed to be known.
2 - To be honest, I had trouble staying awake. I would shrink the lectures to max 15 min...

## 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	2	
4	5	
5	8	Answered very well to questions from the audience
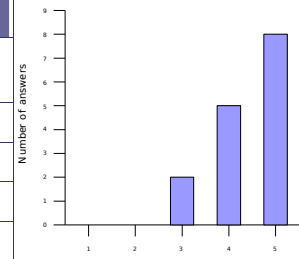
3 - Hard to say, definitely too few questions. Not to blame the instructor (rather the audience), though.
5 - Quite little questions arose...
5 - There weren't too many questions though.
4 - The audience was so busy trying to learn that they didn't present so many questions :-)
3 - Did somebody ask a question? :)
4 - But the audience didn't ask questions

9. Was the instructor helpful with practical labs?

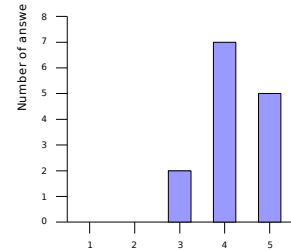| Rating	Answers	Description
1	0	No, not enough available and helpful during the labs.
2	0	
3	0	
4	9	
5	6	Yes. The instructor definitely helped to make labs a learning opportunity.
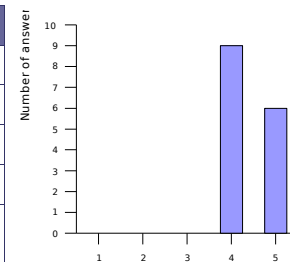
5 - Helpful and very professional.
4 - There were too many participants so instructor didn't always have enough time.

Training labs

10. How useful were the training labs?

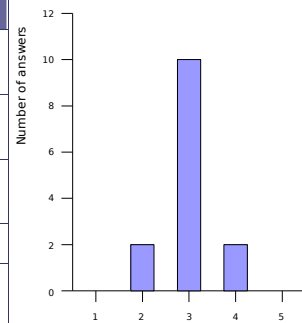| Rating	Answers	Description
1	0	Not useful. Didn't add significant value to the lectures.
2	0	
3	2	
4	7	
5	5	Very useful. Helped to highlight things not understood and build useful experience.

5 - More labs! :)

5 - Good . They were not too straightforward, but with help of printed lectures they work fine.

3 - Could be a bit more challenging ones, too.

3 - A little bit too basic for me.

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	2	A bit too difficult. Would be better if the lab instructions gave a bit more details about explanations.
3	10	Just fine. Prompted me to look for answers, get my own experience and find my own solutions.
4	2	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 - Quite fine, the first labs were too easy, though.

3 - Not too easy for me, not too HC *(?)* either.

3 - Labs were in line with the issues in the presentation.

3 - Some were quite hard.

12. Was enough time dedicated to the practical labs?

Rating	Answers	Description
1	2	No. More practice is needed
2	8	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
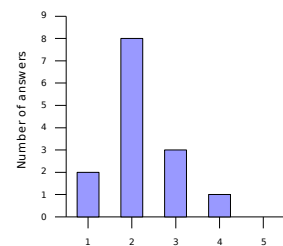
3 - The time was fine, more labs would have been nice.

2 - Tough one. Somebody needs more time than others. I'd prefer a bit more time.

1 - There are so many details involved in (embedded) Linux that more of practical exercises would be welcome. Although I understand that thoroughly going through all dmas / irqs / drivers ... in detail might take too much time.

Training conditions

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

Rating	Answers	Description
1	1	Poor.
2	4	
3	6	
4	3	
5	0	Very good.
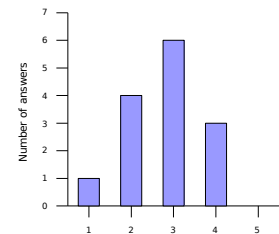
3 - Too hot, displays were poor. Round shaped room was great.
3 - Too warm!
3 - Equipment good. Temperature bad.
3 - Pretty hot!
3 - Too hot.
4 - The sauna was too cold :)
4 - Hot
3 - Too warm
2 - Too hot...
2 - Too hot room.
2 - Hot :-)
1 - Very hot room.

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

Rating	Answers	Description
1	0	Poor. Not powerful enough to execute practical labs.
2	1	
3	6	
4	5	
5	2	Very good. Very little time waiting, more time learning.
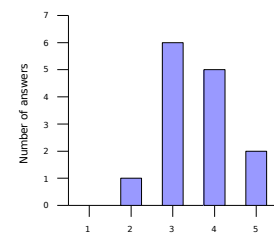
3 - Computer OK, display awful.
3 - My own. Can't complain.
2 - There were not enough computers

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

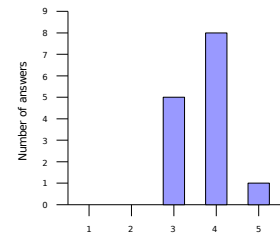| Rating	Answers	Description
1	0	Not well
2	0	
3	1	
4	9	
5	4	Very well
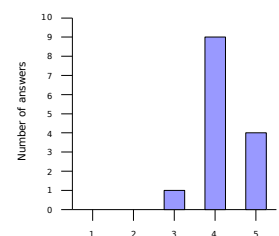
3 - I received the wrong schedule before hand (the user space part).

Overall rating

16. How much did you learn?

Rating	Answers	Description
1	0	Definitely not much
2	0	
3	5	
4	8	
5	1	Definitely more than I expected.

4 - More than expected, still need practice with basics too...
4 - Already more or less on the topics.
3 - Have to learn much more...
3 - I got some pretty good pointers which I can utilize in my work.
3 - Level a bit too basic for me

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

Rating	Answers	Description
1	0	Not useful.
2	1	
3	5	
4	6	
5	1	Very useful. Will make my job easier and more productive.
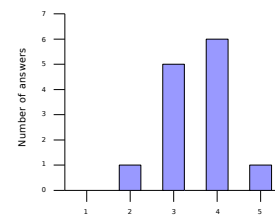
2 - I hope it would be of use in the near future :)
4 - I am project manager, this course helps me to understand Linux basics.
3 - Not currently working with Linux.
4 - My job is quite HW related, but still I see this info very useful.
3 - Don't quite know yet what my future projects will be.
3 - Not very useful in my current job but may be very useful in future jobs.
5 - Good references to other places.
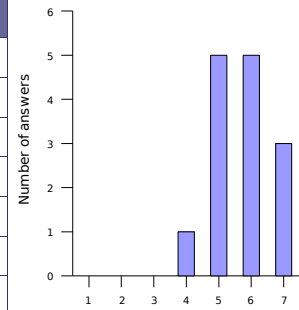
18. Would you recommend this course to others?

Rating	Answers	Description
1	0	No.
2	0	
3	1	
4	6	
5	7	Yes, definitely
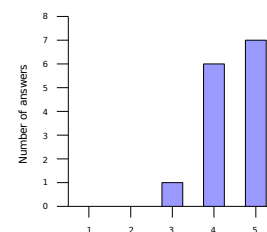
19. Overall rating

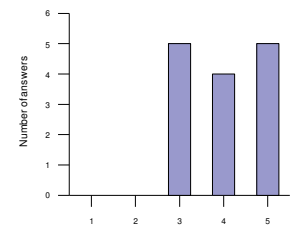| Rating	Answers	Description
1	0	Very disappointing
2	0	Disappointing
3	0	A little bit disappointing
4	1	OK
5	5	Pretty good
6	5	Very good
7	3	Excellent

6 - There is always room for improvements :)

4 - Too many things to learn within 3 days.

20. An extra session?

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

4 - After 1 year maybe.

4 - The userspace part interests me.

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		Processor specific code	3	Lightweight tools	1	Java	
Filesystem implementation		USB host drivers	1	Board specific code		Embedded system development tools	5	Real-time	2
Memory management	1	PCI drivers		Board specific interrupt support code		Cross-compiling toolchains	3	Audio	2
Scheduling implementation	2	Network drivers		DMA support	2	Debugging solutions	2	Video	1
Bootstrap code	1	Block drivers		Bootloader development	2	Software development tools	2	uClinux	2
		Flash drivers	1			Programming with graphical libraries	2	Voice over IP	
		I2S drivers	1			POSIX API	2		
		Input drivers	1			System optimization	2		
		Sound drivers	1			Root filesystem creation	1		
		Video drivers	2						

Instructor comments

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

- By proposing more labs, targeting people with more experience who might find the standard labs too easy.
- By ordering very cold drinks ;-)