

Training evaluation report

Training session: Embedded Linux Training
Training dates: Apr. 21-24, 2008 (4 days)

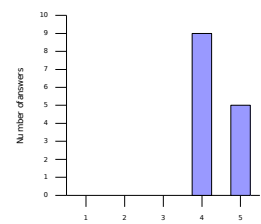
Number of participants: 16
Returned feedback forms: 14/16

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?

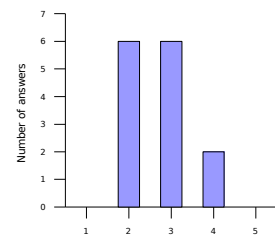
Rating	Answers	Description
1	0	Not met
2	0	
3	0	
4	9	
5	5	Fully met



4 - Expected a more advanced training.

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	6	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.



2 - BSP development had to be skipped for example.

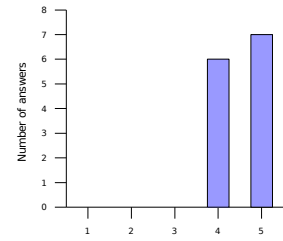
2 - The course should be 5 days long. The schedule is a little too tight for 4 days, esp. when all participants don't have the same level of knowledge.



Lecture materials

3. How helpful were the lecture materials?

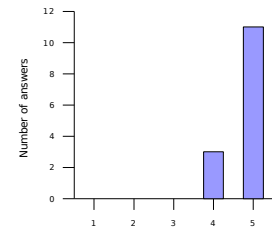
Rating	Answers	Description
1	0	Not helpful. Made things more difficult to learn and understand.
2	0	
3	0	
4	6	
5	7	Really made things easier to understand and learn.



4 - But too much material
4 - Helpful and well documented
N/A - Can be more explanatory.

4. Will you recommend these materials to others?

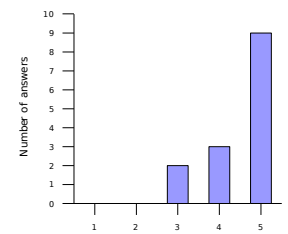
Rating	Answers	Description
1	0	No. Not helpful without following the sessions.
2	0	
3	0	
4	3	
5	11	Definitely



5 - The best training we got so far.

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	2	
4	3	
5	9	Definitely



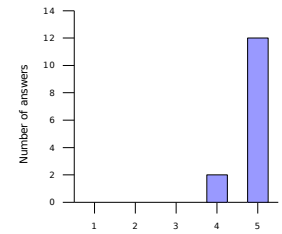
5 - Some updates may be necessary though :)



Instructor added value

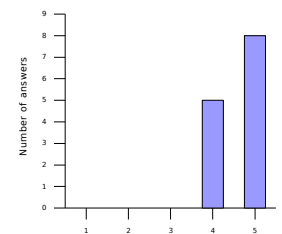
6. How knowledgeable was the instructor?

Rating	Answers	Description
1	0	Not enough for my own technical experience.
2	0	
3	0	
4	2	
5	12	More than enough for my own experience.



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

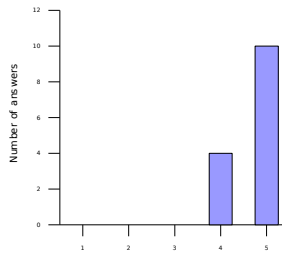
Rating	Answers	Description
1	0	No added value to reading the materials.
2	0	
3	0	
4	5	
5	8	Yes. The instructor really made very useful oral explanations.



N/A - Helpful especially in lab sections

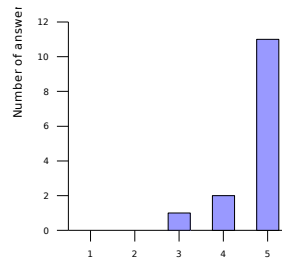
8. How well did the instructor answer questions from the audience?

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	4	
5	10	Answered very well to questions from the audience



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	11	Yes. The instructor definitely helped to make labs a learning opportunity.



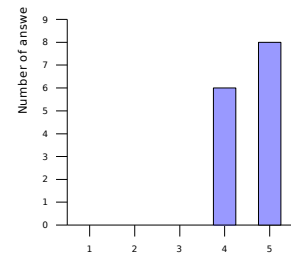
3 - 1 instructor wasn't enough to support ~15 students. Should be at least 2.



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	6	
5	8	Very useful. Helped to highlight things not understood and build useful experience.



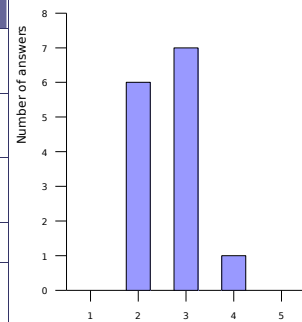
4 - Too much labor work inside the labs (downloading, installing packages, etc.). These kind of files should be ready at the beginning.

5 - Better than lecturing! Let's do more labs

5 - Some points were actually cleared up during the labs.

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	6	A bit too difficult. Would be better if the lab instructions gave a bit more details about explanations.
3	7	Just fine. Prompted me to look for answers, get my own experience and find my own solutions.
4	1	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.

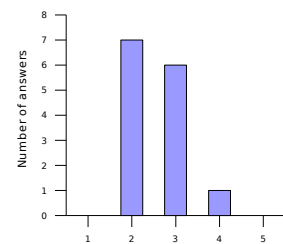


3 - I find it great that the labs also required knowledge from previous chapters.

2 - But it would be better with more explanations.

12. Was enough time dedicated to the practical labs?

Rating	Answers	Description
1	0	No. More practice is needed
2	7	A little bit more time would help.
3	6	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



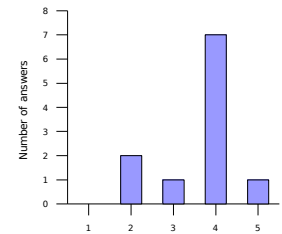
2 - We had to skip some labs because of the 4 days limit.



Training conditions

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

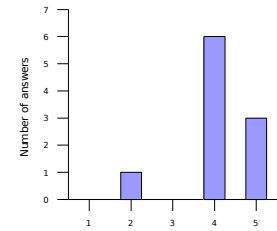
Rating	Answers	Description
1	0	Poor.
2	2	
3	1	
4	7	
5	1	Very good.



4 - It was hot
2 - OK - Rooms were not chosen very well.
N/A

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

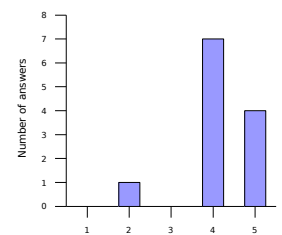
Rating	Answers	Description
1	0	Poor. Not powerful enough to execute practical labs.
2	1	
3	0	
4	6	
5	3	Very good. Very little time waiting, more time learning.



2 - OK - We used our own notebooks, so the equipments were OK.
N/A
4 - We have needed PCs for realtime lectures (*note: real PCs instead of virtual machines for real-time benchmarks*)

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

Rating	Answers	Description
1	0	Not well
2	1	
3	0	
4	7	
5	4	Very well



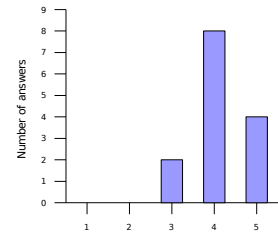
2 - Planned agenda could not be completed.
4 - Well - In general the course was much better than I expected
4 - Problem in meeting the schedule



Overall rating

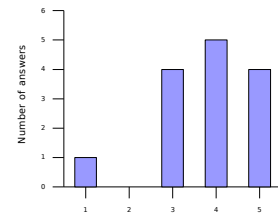
16. How much did you learn?

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



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

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

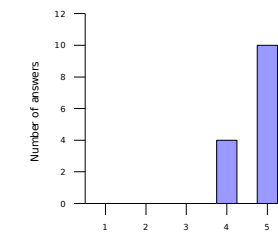


3 - Maybe in future projects

4 - Useful - Depending on the projects, I believe it will be quite useful.

18. Would you recommend this course to others?

Rating	Answers	Description
1	0	No.
2	0	
3	0	
4	4	
5	10	Yes, definitely

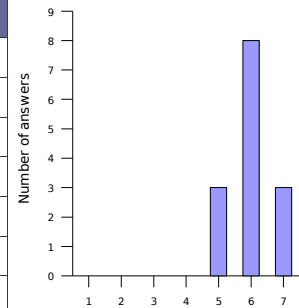


4 - Very good for newbies



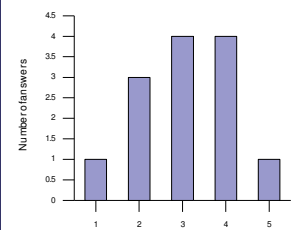
19. Overall rating

Rating	Answers	Description
1	0	Very disappointing
2	0	Disappointing
3	0	A little bit disappointing
4	0	OK
5	3	Pretty good
6	8	Very good
7	3	Excellent



20. An extra session?

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



- 2 - Not needed as of now.
- 3 - Not in the near future, but may be later.
- 3- It can be after our own projects on embedded Linux.
- 4 - Yes, if needed.

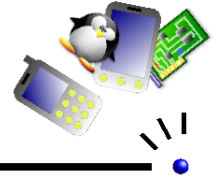
Number of votes for topics in an extra session

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

Free Electrons comments

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

- By proposing a less dense agenda, perhaps not skipping topics asked by the customer, but by skipping less important details.
- By giving more lab solutions.



Life after training

After this training session, do not hesitate to get back to us! Here are things we could do to support you in your embedded Linux projects:

- More training: we can organize custom training sessions or workshops on specific topics. Examples: USB device drivers, developing multimedia systems, uClinux, BSP development...
- Linux kernel porting. Adding Linux support to your boards, or supporting you in doing this.
- Having your board support code merged in mainstream sources (Linux, U-boot), so that your sources are maintained by the community. This also means for customers that your boards will be supported for a long time.
- System development and integration. Creating demos and prototypes.
- System optimization: improving system performance and features (power consumption, speed, size...)
- Investigating and fixing nasty bugs that you don't have time to cope with by yourselves.

See <http://free-electrons.com/services> for details.