

Training evaluation report

Training session: Embedded Linux Training **Training dates**: Sep. 29- Oct. 1, 2008 (3 days)

Number of participants: 15 Returned feedback forms: 12/15

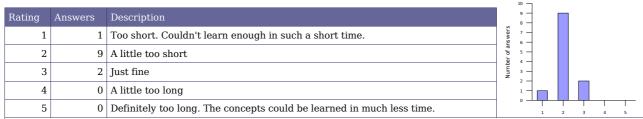
Thank you for having organized a Free Electrons training session! Here is a wrap-up of evaluations from participants.

Learning objectives

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

Rating	Answers	Description	7 6
1	0	Not met	s -
2	0		4 — 4 — 3 —
3	1		2 —
4	5		1
5	6	Fully met	1 1 1 1 1
1 - Too m	ich to take i	n from my position of very little knowledge - needed longer	

2. How was the duration of the course?

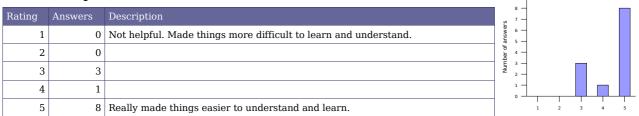


- 1 Too short.
- 2 Doing all the labs would have been better.
- 2 Felt rushed
- 3 A bit of unbalance between theory and labs, not bad "per se" but made it hard to schedule plans.
- 2 Would be nice to have more time for the labs.
- 2 We spent too much time the first day downloading the needed software. Nice to have a local mirror in class with all the stuff inside.



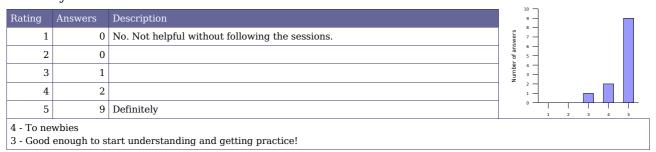
Lecture materials

3. How helpful were the lecture materials?

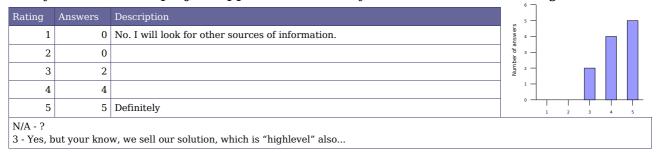


- 3 Material could be more precise about the ??? and the principle background. Not the how to from the command line references to the current product would be fine. *Trainer note: didn't understand this remark.*
- 5 Very good
- 3 Maybe add more info on PPC as well as on the new powerpc tree (DTS, DTB).... it is by far the mostly used arch we have.
- 5 Super

4. Will you recommend these materials to others?



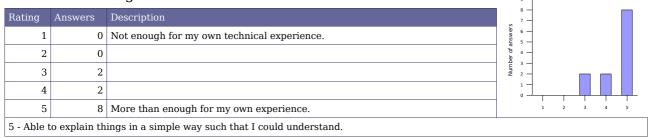
5. If you have Linux project opportunities, will you use these materials again?



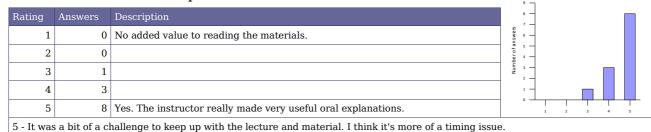


Instructor added value

6. How knowledgeable was the instructor?



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



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

			i	, J					
Rating	Answers	Description		• -					
1	0	Poorly. Didn't try to understand the questions well or rarely managed to find useful answers.	fanswers	4 —					
2	0		mber o	3 -					
3	1		ž	2 -					
4	5			1					
5	6	Answered very well to questions from the audience			1	2	3	4	5

- 5 Answered most questions without hesitation. Took some away found some answers overnight. Could not ask for more.
- ${\bf 5}$ I appreciate the follow-up to the questions.

9. Was the instructor helpful with practical labs?

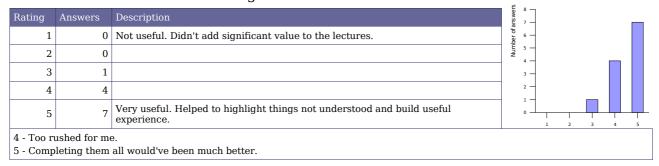
			. se						
Rating	Answers	Description	er of ar	10 -	1				
1	0	No, not enough available and helpful during the labs.	Numb	8 -					
2	0			6 -					
3	1			4 -					
4	1			2 -					
5	10	Yes. The instructor definitely helped to make labs a learning opportunity.		0 -	1	2	3	4	5
5 - Very	excellent h	elp							

^{5 -} Still waiting for answers on written down questions (such as XIP on non ARM CPU) . Trainer note: answered this particular question (the participant was perhaps away at that time). However, I still have more answers to forward to participants.

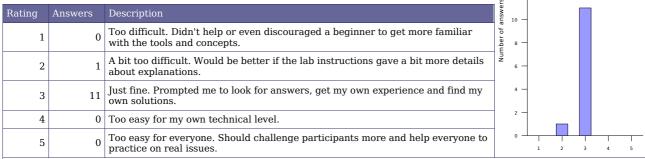


Training labs

10. How useful were the training labs?



11. How difficult were the training labs?



2 - Level of lab goal ok. But sometimes info missing (not mentioned in slides or time consuming flipping through slides -> command index?)

3 - OK

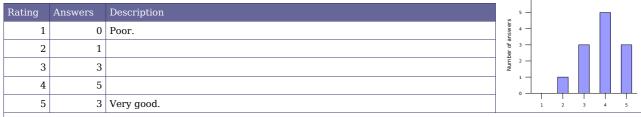
12. Was enough time dedicated to the practical labs?

Rating	Answers	Description	,	8 -					
1	2	No. More practice is needed	inswer	6 -					
2	8	A little bit more time would help.	oer of a	4 -					
3	2	Just fine	Num	3 —					
4	1	A little bit less time would be enough.		1 -					
5	0	Don't need to spend so much time on labs. On-the-job practice is best		0 —	1	2	3	4	5
1 - No									



Training conditions

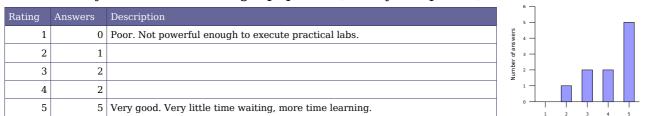
13. How do you rate training conditions (room size, equipment, environment...)?



- 2 Make sure downloads are working.
- 4 Clear view
- 3 Internet access could've been better. It'd be easier if we had the download material in flash or CD.
- 4 Internet bandwidth was bad!
- 4 WLAN sucked not your fault of course :-)
- 3 Wlan connectivity could be better. Overall WLAN throughput quite low. Tables are a little bit too small when using laptops + course material.

N/A

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



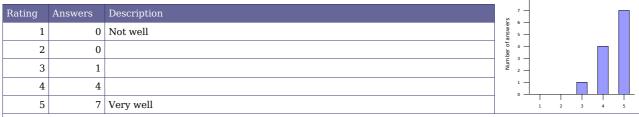
N/A - Used own - WMware worked fine.

- 5 N/A? Own equipment
- 5 Own equipment

N/A

- 2 Kubuntu was a bit too unstable on my machine but I suspect it was my machine's fault
- 3 We waste time trying to download stuff over Internet, adding a local mirror for apt-get would be a great idea.

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

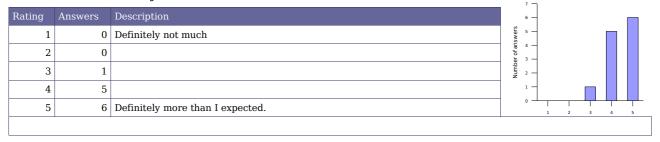


5 - Very good to do 600 slides in 3 days. However, as noted, this meant the labs were rushed.

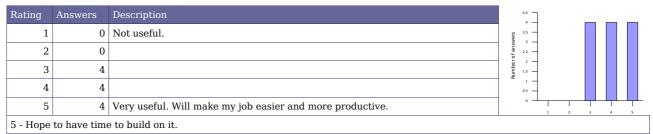


Overall rating

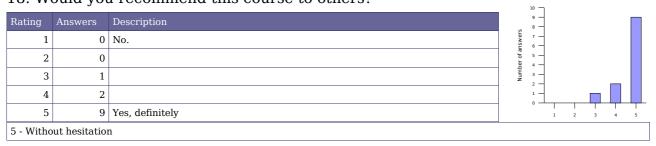
16. How much did you learn?



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



18. Would you recommend this course to others?

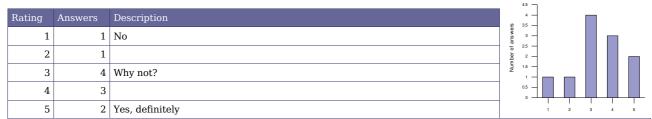




19. Overall rating

Rating	Answers	Description	s	5 —					
1	0	Very disappointing	wer						
2	0	Disappointing	ofans	* 7					
3	0	A little bit disappointing	0	3 -					
4	1	OK	Numb	2 -					
5	1	Pretty good		1 -					
6	5	Very good		$_{\circ} ot$				Ш	
7	5	Excellent			1 2	3	4	ا 5	1 I 6 7

20. An extra session?



3 - Can't really answer - need to try to absorb this first.

N/A - Talk to my manager / budget :-)

2 - Not sure due to my market.

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

Free Electrons comments

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

- By skipping the least important parts of our lectures, to keep more time for the practical labs and let people finish the most important parts of their labs.
- By coming with a "Plan B" when there are networking issues. We plan to use the instructor's laptop as a caching web proxy (with required downloads already cached). This way, people download things from the real life locations, but still enjoy fast downloads.
- By offering to spend a little bit of time on the PowerPC architecture if the audience is interested.



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...
- If some people in your organization missed the session, and you don't have enough requests to organize another session, they can choose to go to our public training sessions. See http://free-electrons.com/training/sessions for details.
- 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.