![Free Electrons logo]

**Free Electrons**

Free software for
Electronic devices

# Training evaluation report

**Training session**: Embedded Linux Training
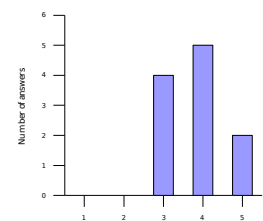**Training dates**: Nov. 14-16, 2007 (3 days)

**Number of participants**: 15
**Returned feedback forms**:  11/15

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 |
|---|---|---|
| 1 | 0 | Not met |
| 2 | 0 | |
| 3 | 4 | |
| 4 | 5 | |
| 5 | 2 | Fully met |

4 - I would have done better if my Linux command usage was solid
3 - Too much talking and less practical. Suggestion, less talking and more labs.

### 2. How was the duration of the course?

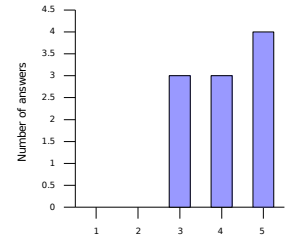| Rating | Answers | Description |
|---|---|---|
| 1 | 3 | Too short. Couldn't learn enough in such a short time. |
| 2 | 7 | A little too short |
| 3 | 0 | Just fine |
| 4 | 0 | A little too long |
| 5 | 0 | Definitely too long. The concepts could be learned in much less time. |
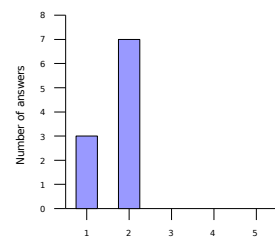
2 - "Lab activity normally will take some time to complete. It's good to ensure all participants successfully completed those activities since it is purposely to develop their technical skills.
2 - Make it 4 days? Or do a night session.
2 - Need more time, sometimes you are too fast on lectures . But ok, not all the time.

## Lecture materials
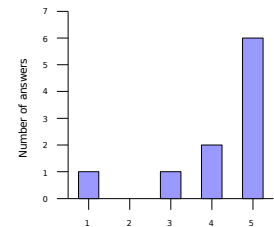
### 3. How helpful were the lecture materials?

| Rating | Answers | Description |
|---|---|---|
| 1 | 0 | Not helpful. Made things more difficult to learn and understand. |
| 2 | 0 | |
| 3 | 3 | |
| 4 | 3 | |
| 5 | 4 | Really made things easier to understand and learn. |
| N/A - Very interesting slides, very helpful. | | |

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

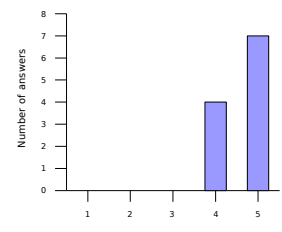| Rating | Answers | Description |
|---|---|---|
| 1 | 1 | No. Not helpful without following the sessions. |
| 2 | 0 | |
| 3 | 1 | |
| 4 | 2 | |
| 5 | 6 | Definitely |
| 1 - This is considered as high level subject. Those who are interested to know this subject should at least had basic of Linux knowledge.<br>N/A - Of course, I´ll tell them to prepare themselves with Linux basic commands | | |

### 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 | 4 | |
| 5 | 7 | Definitely |
| 5 - For sure | | |

## 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 | 8 | More than enough for my own experience. |
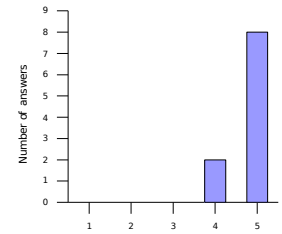
N/A - Excellent

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

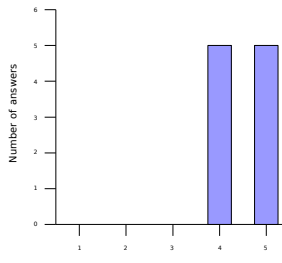| Rating | Answers | Description |
|---|---|---|
| 1 | 0 | No added value to reading the materials. |
| 2 | 0 | |
| 3 | 0 | |
| 4 | 6 | |
| 5 | 4 | Yes. The instructor really made very useful oral explanations. |
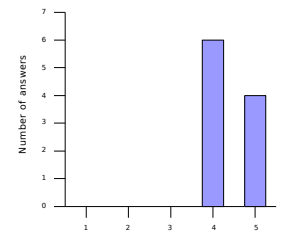
5 - Instead of oral, instructor should make full use of white board to elaborate his explanations. It will definitely help much.
N/A - OK

### 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 | 5 | |
| 5 | 5 | Answered very well to questions from the audience |

N/A - Good

### 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 | 1 | |
| 5 | 9 | Yes. The instructor definitely helped to make labs a learning opportunity. |
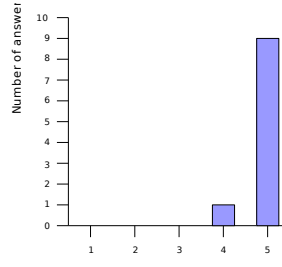
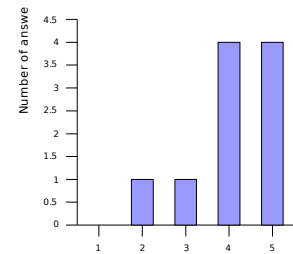5 - Unfortunately, some of the practical labs could not be done due to time constraints.
N/A - Yes, very much.

## Training labs

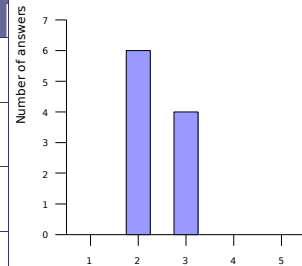### 10. How useful did you find the training labs?

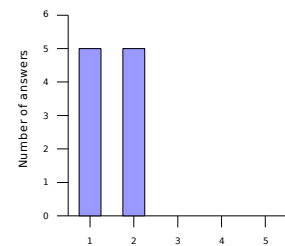| Rating | Answers | Description |
|---|---|---|
| 1 | 0 | Not useful. Didn't add significant value to the lectures. |
| 2 | 1 | |
| 3 | 1 | |
| 4 | 4 | |
| 5 | 4 | Very useful. Helped to highlight things not understood and build useful experience. |
| N/A - Very well prepared and easy to follow. | | |

### 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 | 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. |
| N/A - Get tough towards the end. | | |

### 12. Was enough time dedicated to the practical labs?

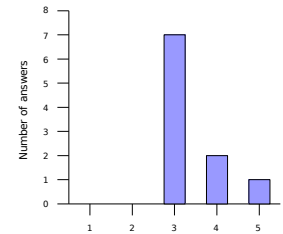| Rating | Answers | Description |
|---|---|---|
| 1 | 5 | No. More practice is needed |
| 2 | 5 | A little bit more time would help. |
| 3 | 0 | Just fine |
| 4 | 0 | A little bit less time would be enough. |
| 5 | 0 | Don't need to spend so much time on labs. On-the-job practice is best |
| 1 - Definitely the organizer and instructor should look at this. | | |
| N/A - I thing should be ok, if we have enough pre-requisite know how. Good know how of Linux commands. | | |

## Training conditions

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

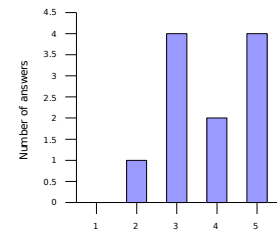| Rating | Answers | Description |
|--------|---------|-------------|
| 1 | 0 | Poor. |
| 2 | 0 | |
| 3 | 7 | |
| 4 | 2 | |
| 5 | 1 | Very good. |

3 - Just fine
N/A - Need slightly larger table.
3 - Could have a bigger room and enough space to *<?>* and lights a bit dim.



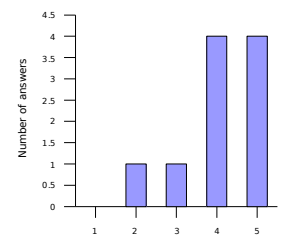### 14. How do you rate the training equipment (mainly computers)?

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

3 - Just fine



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

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

N/A - Ok, simple ... less protocol is better.

## Overall rating

### 16. How much did you learn?

| Rating | Answers | Description |
|---|---|---|
| 1 | 0 | Definitely not much |
| 2 | 0 | |
| 3 | 3 | |
| 4 | 5 | |
| 5 | 3 | Definitely more than I expected. |
| | | |
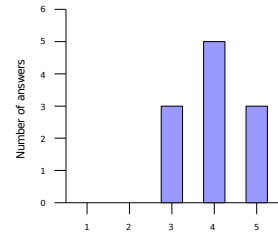
### 17. How useful will this course be in your daily job?

| Rating | Answers | Description |
|---|---|---|
| 1 | 0 | Not useful. |
| 2 | 0 | |
| 3 | 4 | |
| 4 | 2 | |
| 5 | 5 | Very useful. Will make my job easier and more productive. |
| 3 - Just fine. Some of the contents covered in the training are useful for my daily tasks. | | |
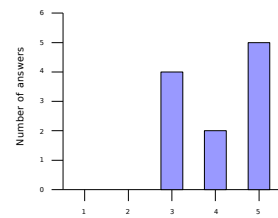
### 18. Would you recommend this course to others?

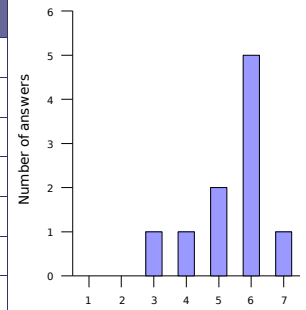| Rating | Answers | Description |
|---|---|---|
| 1 | 0 | No. |
| 2 | 0 | |
| 3 | 1 | |
| 4 | 1 | |
| 5 | 9 | Yes, definitely |
| 3 - Yes, with condition - For those who really work in Linux embedded systems. | | |
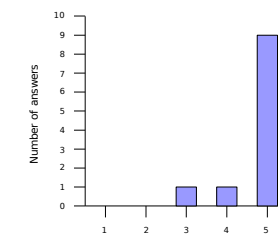
## 19. Overall rating

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

## 20. An extra session?

| Rating | Answers | Description |
|---|---|---|
| 1 | 1 | No |
| 2 | 0 | |
| 3 | 1 | Why not? |
| 4 | 2 | |
| 5 | 6 | Yes, definitely |
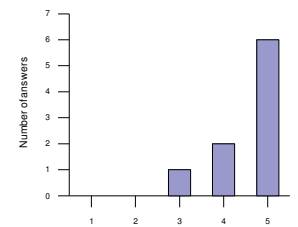
5 - The embedded board and device drivers - Linux device driver development - Embedded system development

4 - Understanding the Linux kernel - Embedded system development.

N/A - Yes, real time.

3 - Linux device driver development.

5 - Linux device driver development.

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

## Instructor comments

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

- By using the white board more often when giving extra details not covered in the slides, to make oral explanations easier to understand.
- By making sure that people are properly warned that they should get familiar with the Unix / Linux command line.