# Free Electrons

Free software for
Electronic devices

# Training evaluation report

**Training session**: Embedded Linux Training
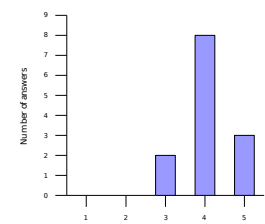**Training dates**: Nov. 19-21, 2007 (3 days)

**Number of participants**: 14
**Returned feedback forms**:  13/14

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?
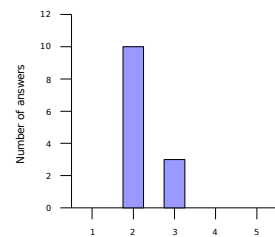
| Rating | Answers | Description |
|---|---|---|
| 1 | 0 | Not met |
| 2 | 0 | |
| 3 | 2 | |
| 4 | 8 | |
| 5 | 3 | Fully met |

4 - Practical labs represented an important part, but I would like to spend more time on them to gain more understanding.

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

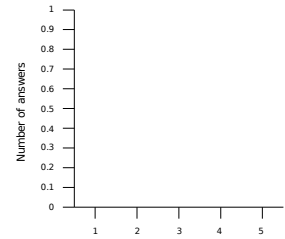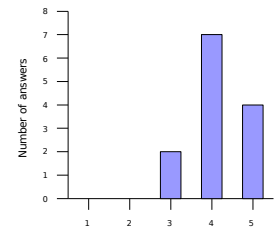| Rating | Answers | Description |
|---|---|---|
| 1 | 0 | Too short. Couldn't learn enough in such a short time. |
| 2 | 10 | A little too short |
| 3 | 3 | Just fine |
| 4 | 0 | A little too long |
| 5 | 0 | Definitely too long. The concepts could be learned in much less time. |

2 - A lot of material to learn.

## 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 | 0 | |
| 5 | 0 | Really made things easier to understand and learn. |
| | | |

### 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 | 7 | |
| 5 | 4 | Definitely |
| 5 - Very nice, details and easy, but it would be more convenient if it had more examples. | | |

### 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 | 3 | |
| 5 | 9 | Definitely |
| | | |
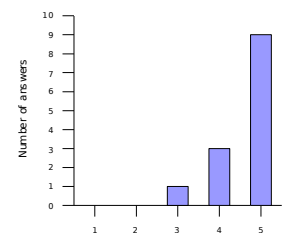
## Instructor added value

### 6. How knowledgeable was the instructor?

| Rating | Answers | Description |
|---|---|---|
| 1 | 0 | Not enough for my own technical experience. |
| 2 | 0 | |
| 3 | 1 | |
| 4 | 2 | |
| 5 | 10 | More than enough for my own experience. |
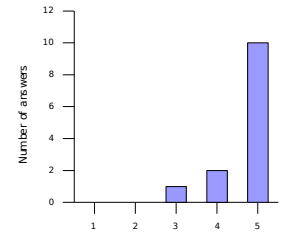
### 7. Did instructor oral explanations add value to the lecture materials?

| Rating | Answers | Description |
|---|---|---|
| 1 | 0 | No added value to reading the materials. |
| 2 | 0 | |
| 3 | 1 | |
| 4 | 6 | |
| 5 | 6 | Yes. The instructor really made very useful oral explanations. |
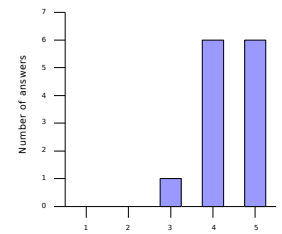
### 8. How well did the instructor answer questions from the audience?

| 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 | 9 | Answered very well to questions from the audience |
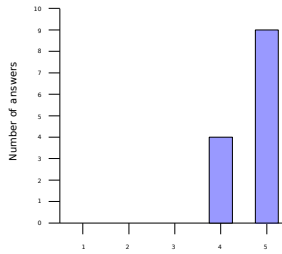
### 9. Was the instructor helpful with practical labs?

| Rating | Answers | Description |
|---|---|---|
| 1 | 0 | No, not enough available and helpful during the labs. |
| 2 | 0 | |
| 3 | 0 | |
| 4 | 1 | |
| 5 | 12 | Yes. The instructor definitely helped to make labs a learning opportunity. |
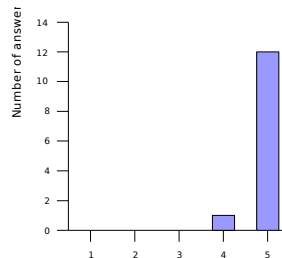
## Training labs

### 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 | 0 | |
| 3 | 0 | |
| 4 | 4 | |
| 5 | 9 | Very useful. Helped to highlight things not understood and build useful experience. |
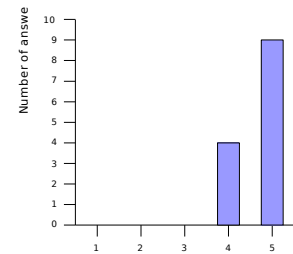
5 - I wish I could spend more time in practical

### 11. How difficult were the training labs?

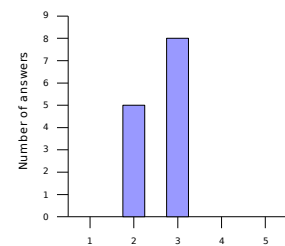| Rating | Answers | Description |
|---|---|---|
| 1 | 0 | Too difficult. Didn't help or even discouraged a beginner to get more familiar with the tools and concepts. |
| 2 | 5 | A bit too difficult. Would be better if the lab instructions gave a bit more details about explanations. |
| 3 | 8 | Just 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. |
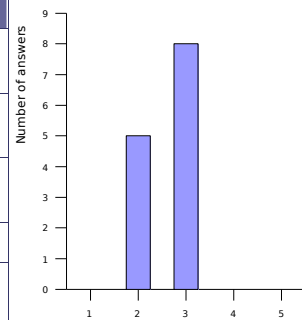
3 - Lack of details in the instructions.
*Note from the instructor: this is done on purpose. We try to create challenging labs, which make people get back to their slides if they missed something important. In our labs, that's why we tell people what to do, but not how to.*

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

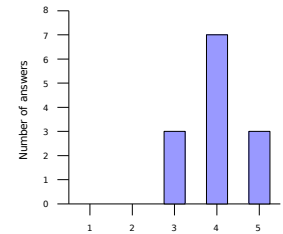| Rating | Answers | Description |
|---|---|---|
| 1 | 0 | No. More practice is needed |
| 2 | 5 | A little bit more time would help. |
| 3 | 8 | Just fine |
| 4 | 0 | A little bit less time would be enough. |
| 5 | 0 | Don't need to spend so much time on labs. On-the-job practice  is best |

2 - Should be 50% : 50%

## Training conditions

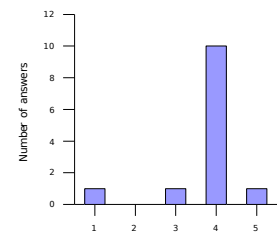### 13. How do you rate training conditions (room size, equipment, environment...)?

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

4 - A bit cold

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

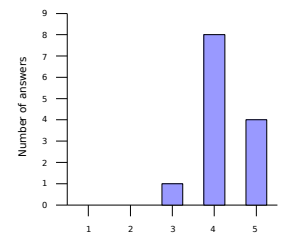| Rating | Answers | Description |
|---|---|---|
| 1 | 1 | Poor. Not powerful enough to execute practical labs. |
| 2 | 0 | |
| 3 | 1 | |
| 4 | 10 | |
| 5 | 1 | Very good. Very little time waiting, more time learning. |

4 - Problems with wireless connection cards on first day.
1 - During 1st day.

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

| Rating | Answers | Description |
|---|---|---|
| 1 | 0 | Not well |
| 2 | 0 | |
| 3 | 1 | |
| 4 | 8 | |
| 5 | 4 | Very well |

## Overall rating

### 16. How much did you learn?

| Rating | Answers | Description |
|---|---|---|
| 1 | 0 | Definitely not much |
| 2 | 0 | |
| 3 | 2 | |
| 4 | 7 | |
| 5 | 4 | Definitely more than I expected. |
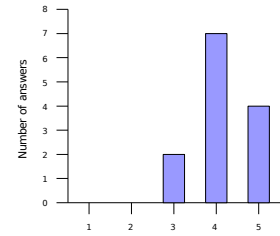
### 17. How useful will this course be in your daily job?

| Rating | Answers | Description |
|---|---|---|
| 1 | 0 | Not useful. |
| 2 | 0 | |
| 3 | 1 | |
| 4 | 8 | |
| 5 | 4 | Very useful. Will make my job easier and more productive. |
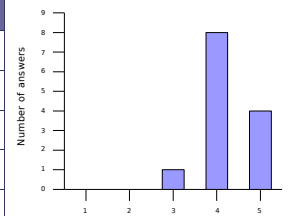
### 18. Would you recommend this course to others?

| Rating | Answers | Description |
|---|---|---|
| 1 | 0 | No. |
| 2 | 0 | |
| 3 | 1 | |
| 4 | 2 | |
| 5 | 9 | Yes, definitely |
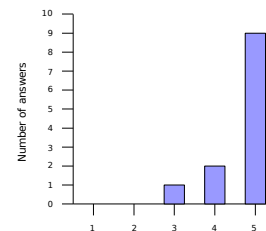
## 19. Overall rating

| Rating | Answers | Description |
|---|---|---|
| 1 | 0 | Very disappointing |
| 2 | 0 | Disappointing |
| 3 | 0 | A little bit disappointing |
| 4 | 1 | OK |
| 5 | 1 | Pretty good |
| 6 | 10 | Very good |
| 7 | 1 | Excellent |
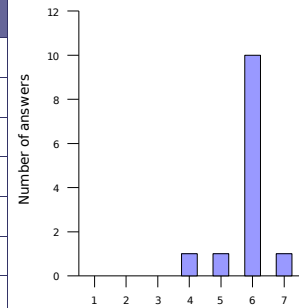
## 20. An extra session?

| Rating | Answers | Description |
|---|---|---|
| 1 | 0 | No |
| 2 | 0 | |
| 3 | 6 | Why not? |
| 4 | 2 | |
| 5 | 5 | Yes, definitely |
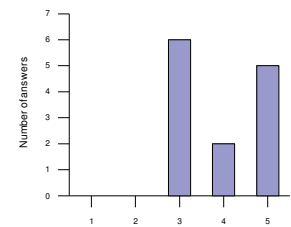
3 - uClinux

**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 | 2 | USB device drivers | 3 | Processor specific code | | Lightweight tools | | Java | 1 |
| Filesystem implementation | | USB host drivers | 1 | Board specific code | 1 | Embedded system development tools | 4 | Real-time | 3 |
| Memory management | 1 | PCI drivers | 2 | Board specific interrupt support code | | Cross-compiling toolchains | 3 | Audio | |
| Scheduling implementation | 1 | Network drivers | 2 | DMA support | | Debugging solutions | | Video | |
| Bootstrap code | 1 | Block drivers | | Bootloader development | 1 | Software development tools | 1 | uClinux | 2 |
| | | Flash drivers | | | | Programming with graphical libraries | | Voice over IP | |
| | | I2S drivers | 2 | | | POSIX API | 2 | | |
| | | 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 giving more code examples during lectures.