

Table of Contents

<i>Kernel Walkthrough: Source Tree Layout</i>	3
June Tutorial: Kernel Walkthrough: Source Tree Layout	3
<i>Kernel Walkthrough: Source Tree Layout</i>	3
About the Speaker	4
<i>Finding the Meeting Location</i>	4
<i>About TheCodeFactory</i>	4

Kernel Walkthrough: Source Tree Layout

June Tutorial: Kernel Walkthrough: Source Tree Layout

Date: June 26, 2008 at 7 p.m.

Location: [TheCodeFactory, 246 Queen St., 2nd floor](#)

UPDATE: [Screencast posted on excess.org](#)

```
/*
 * schedule() is the main scheduler function.
 */
asmlinkage void __sched schedule(void)
{
    struct task_struct *prev, *next;
    unsigned long *switch_count;
    struct rq *rq;
    int cpu;

    need_resched:
    preempt_disable();
    cpu = smp_processor_id();
    rq = cpu_rq(cpu);
    rcu_qsctr_inc(cpu);
    prev = rq->curr;
    switch_count = &prev->nivcsw;

kernel/sched.c [C] master #4 414578838,6-1
```

Kernel Walkthrough: Source Tree Layout

Speaker: [Bart Trojanowski](#)

Bart was watching some Google Tech Talk videos, while his code was compiling, when he ran across SVLUG's "[Kernel Walkthrough](#)" on youtube. Thinking that this was an amazing idea, he wanted to reproduce the event for OCLUG.

The plan is to make this a regular event, and to invite some of the real kernel hackers (from Ottawa and maybe abroad) to give talks. Future sessions could examine other pieces of software. For now we will concentrate on the heart of Linux.

In the first session Bart will describe the layout of the Linux source tree, main types of files, and then let the audience steer the direction of the rest of the meeting. Presented with questions, he will try to point out and discuss how different parts of the kernel work.

Bart hopes that this meeting will attract people of different levels of knowledge and different areas of expertise, with individuals taking the floor to answer questions in their area of the kernel.

About the Speaker

Bart Trojanowski is a Linux kernel hacker, currently self employed working for clients seeking Linux development and consulting services (www.jukie.net). When not hacking Linux drivers and embedded systems, he enjoys playing with his two kids.

See <http://www.jukie.net/~bart/> for more info.

Finding the Meeting Location

<http://maps.google.com/?q=246+Queen+Street,Ottawa,On>

About TheCodeFactory

[TheCodeFactory](#) is a collaborative co-working space dedicated to software start-ups and the ecosystem that supports them in the Ottawa area. The facility is located at 246 Queen Street, between Bank and Kent, on the second floor, entrance just to the left of the Green Papaya when facing the building. You can think of theCodeFactory as a clubhouse for start-ups or

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