

Lecture (February, 10th)

- Operating-System Structures (Chapter 2)
- Further voluntary reading for DTrace:
 - Dynamic Instrumentation of Production Systems, Bryan M. Cantrill, Michael W. Shapiro and Adam H. Leventhal, Solaris Kernel Development Sun Microsystems http://www.sun.com/bigadmin/content/dtrace/dtrace_usenix.pdf
 - BigAdmin System Administration Portal for DTrace :<http://www.sun.com/bigadmin/content/dtrace/>
 - The examples that were shown in the lecture can be downloaded here: <http://www.imada.sdu.dk/~daniel/DM510/add/dm510-dtrace-examples.tar.gz>
- Note: The slides for the course can be accessed via blackboard. The slides for the second chapter differ significantly from the original slides provided by Wiley.
- Note: The notes for February 12, 2009 will be included after the lecture on Thursday.

Tutorial Session

- Note, that the solutions for the “Practice Exercises” can be downloaded http://higherdbcs.wiley.com/legacy/college/silberschatz/0470128720/practice/practice_exercises.pdf. You are expected to work through these exercises for repetition of the corresponding book chapter. Nevertheless, some of the “Practice Exercises” will also be discussed in the tutorial session, too.
- Prepare for the Tutorial Session on Friday, February 13, 2009:
1.13, 1.16, 1.17, 1.22, 1.23, 1.26, 1.32, 1.1, 1.6
2.13, 2.16, 2.17, 2.19, 2.20, 2.21, 2.22, 2.26, 2.9

Additionally, discuss the following source code of a D program. `profile:::tick-1sec` tells the profile provider to create a new probe which fires once per second. The function `trace()` indicates that DTrace should record the specific argument and print it out. What are the clauses of the program? What are the actions of the program? What are predicates of the program? What happens on execution and what is the output of the program?

```
dtrace:::BEGIN
{
    i = 10;
}
```

```
profile:::tick-1sec
```

```
/i > 0/  
{  
    trace(i--);  
}  
  
profile:::tick-1sec  
/i == 0/  
{  
    trace("blastoff!");  
    exit(0);  
}
```