Course texts

Course texts provide instruction on statistics, operating-system design and implementation, and system tracing. You will be asked to read selected chapters from these, but will likely find other content in them useful as you proceed with the labs.


**Lecture 1:** Chapter 2 (*Design Overview of FreeBSD*)

**Lecture 2:** Chapter 3 (*Kernel Subsystems*)

**Lecture 3:** Chapter 4 (*Process Management*)

**Lecture 4:** Chapter 6 (*Memory Management*)

**Lecture 5:** Chapter 12 (*Inter-Process Communication*)

**Lecture 6:** Chapter 14 (*Transport-Layer Protocols*)


**Lab 1:** Chapter 1 (*Introduction to DTrace*) and Chapter 2 (*D Language*); you may wish to refer to later chapters for this and other labs.


Research readings

Our research readings are drawn from various systems publications venues; these provide insight into types of research done with systems that are particularly relevant to our laboratory work, but also examples of practical systems research. Some readings are assigned prior to specific lectures or labs; others are for your (optional) enlightenment (and hopefully also enjoyment).

Tracing and performance analysis


Kernel structure and primitives


Network stacks


Supplemental course texts

The supplemental readings may be useful in refreshing or building up your basic knowledge and skills in support of our lectures and labs.


Websites

These websites may also be of use:
L41 Module Page  https://www.cl.cam.ac.uk/teaching/1415/L41/
FreeBSD Project  https://www.FreeBSD.org/
FreeBSD Subversion Repository  http://svn.FreeBSD.org/
DTrace on FreeBSD  https://wiki.freebsd.org/DTrace
FreeBSD and Linux Kernel Cross-Reference  http://fxr.watson.org/
FreeBSD Benchmark Advice  https://wiki.freebsd.org/BenchmarkAdvice
BeagleBone Black  http://beagleboard.org/black