Ch. 16 -

Device drivers - structure upper & lower half

open - read - write close paradigm

buffering

~~Pipelining~~

Modern processor architecture ~~- cell processor~~ -

not so much what but why?

Forth -

difference betw. intel and MIPS architecture

translation of push & convention pop, ~~string~~ copy operations,

function calls, variable access and manipulation

linked-list following - starting point ~~jmp~~ intel code +

close.asm.py - seeing not everything is done correctly!

open book Button only; ~~closed notes~~ whatever notes you

care to write in the book ()

Ch 17 Parallelism

Kinds of parallelism micro vs macro, symmetric vs asymmetric

fine grain vs coarse grain, explicit vs implicit

SISD, SIMD, MIMD

techniques for communication / coordination; the problem of contention

MP performance

Ch. 18 pipelining

concept; software;

how pipelines increase performance

~~the~~ performance of a pipeline - what limits it.

Ch. 19 - performance -

measures of performance - important principle - measure what you care about

benchmarks.

Cell processor - goals; not so much what as why?

Review previous exams: I will pull one or two directly problems from each of the midterm.