operating systems
fall 2012

can be made preemptive but

may be not great

voluntary preemption -> yields

not preemptive

user threads
Self-evaluation (reappraisal) 

Need for self-validation 

(not really a good idea) 

no need to look 

Affirm: no race conditions
Concentrate

- done by scheduler
- after every
- do feed on timer interrupted
- foreseeable things & process
Context switching in the kernel (yield)

\[ p_1 \quad \rightarrow \quad \ldots \quad \rightarrow \quad timer \quad int \quad \rightarrow \quad kernel \quad \rightarrow \quad p_2 \]
Save current.
Increment SP.
Copy top of stack.
Push R1.
Push R2.
Push R3.
Switch context.
Decide to...
Context switch (yield)

L in stead of user level

L << inside kernel

User appl

Simple thread

Kernel thread
Head, small, or very fast.

Block for P2.

Can not use multigap cues for user three. Cancel out of process.
Kernel threads (clean in Linux)...

Kernel threads behave as if managed by the scheduler like processes, but
preferred over...

switching threads can use mechanism...