

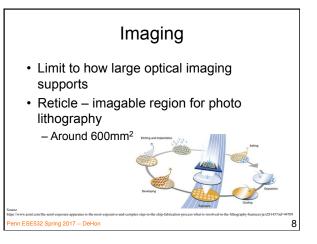
...but

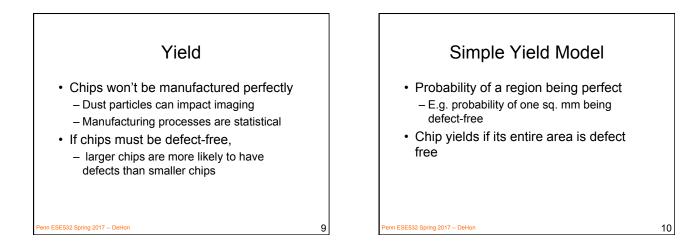
- Limits to how big we can make chips – Manufactures are prepared to create
 - Can be reliably manufactured
- \ldots and how small we can make chips

I/O pads

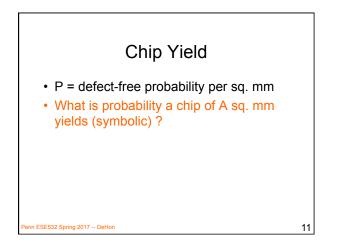
- Cutting/handling/marking

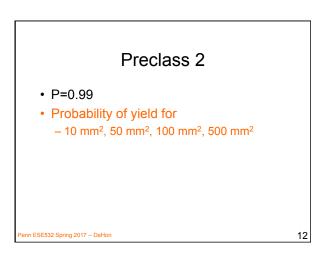
Penn ESE532 Spring 2017 -- DeHon

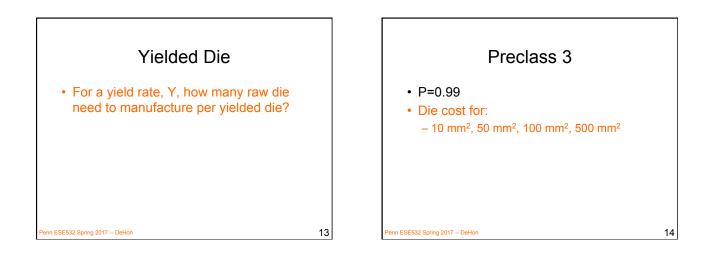


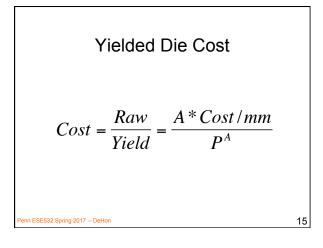


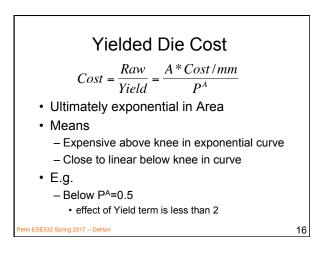
7

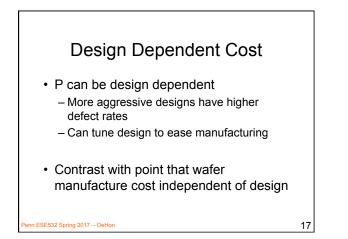


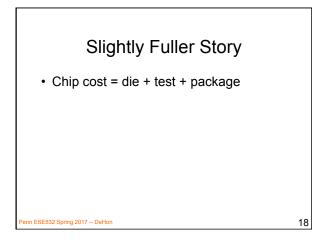


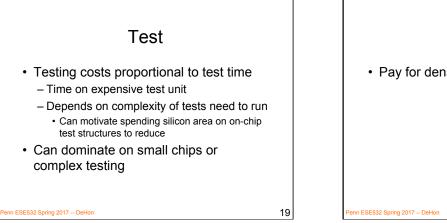


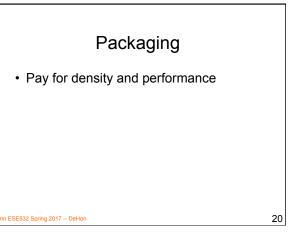


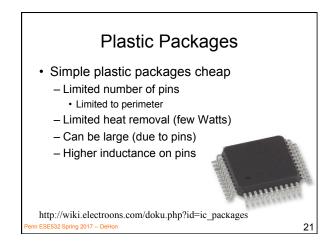


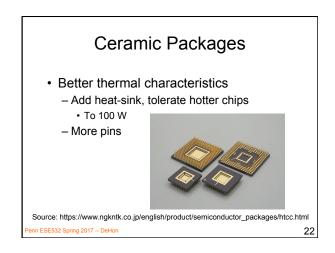


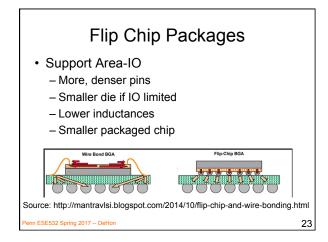


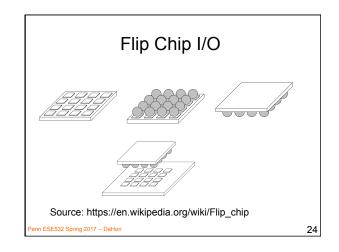




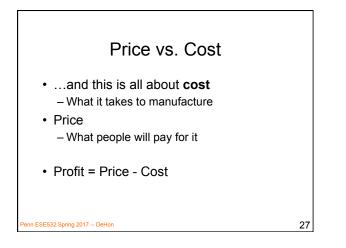


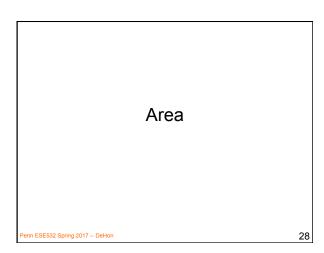


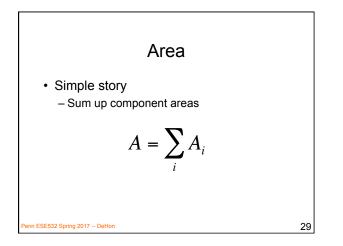


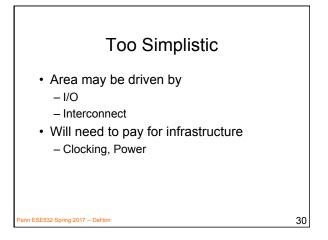


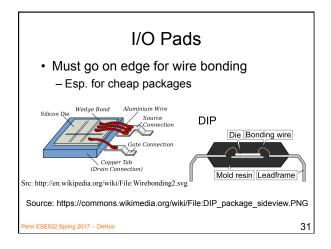


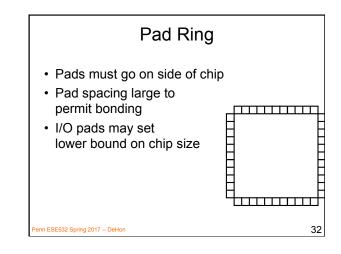


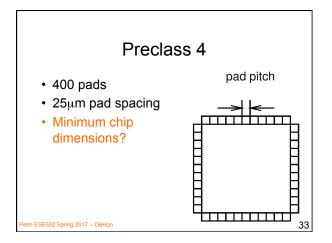


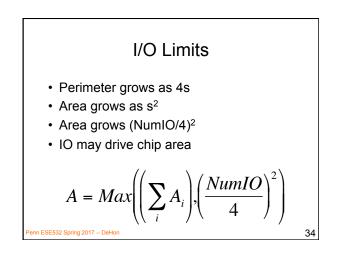


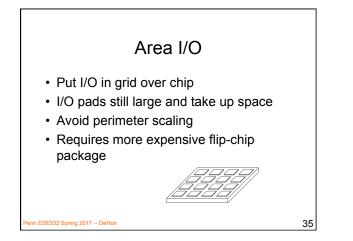


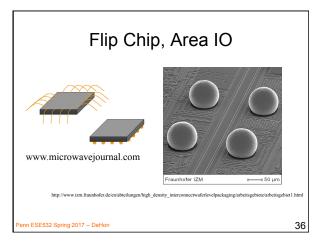


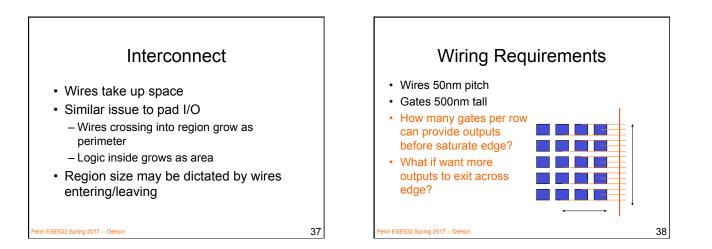


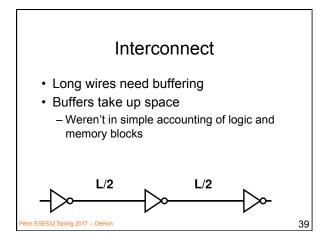


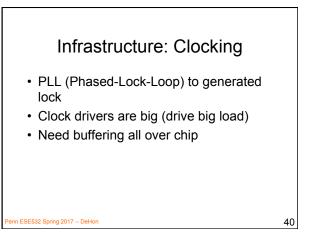


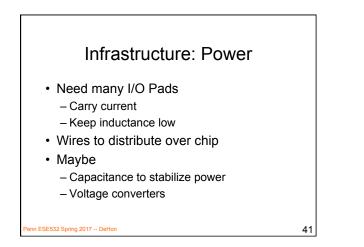


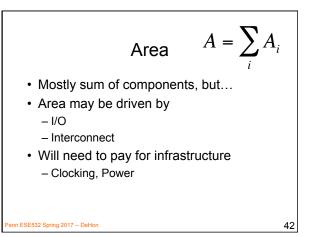


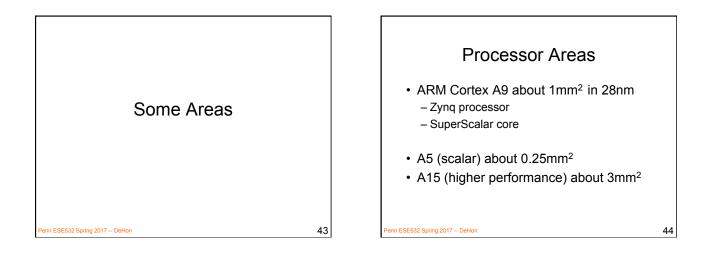


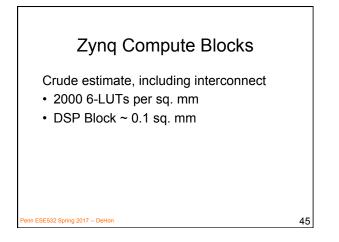


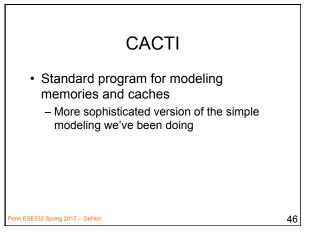


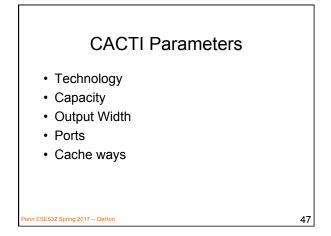


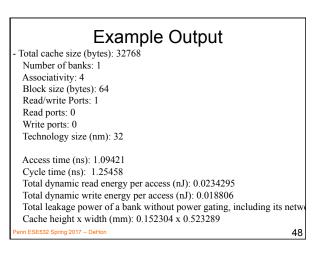


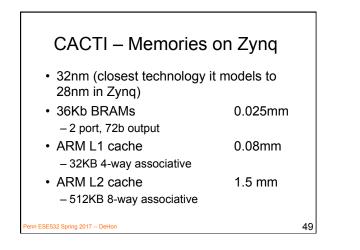






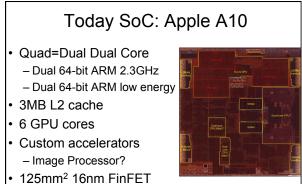






Zynq Component Estimates

• 6-LUT	0.0005 mm ²
DSP Block	0.1 mm ²
36Kb BRAMs	0.025mm ²
 ARM L1 cache 	0.08mm ²
 ARM L2 cache 	1.5 mm ²
 ARM Cortex A9 	1.0 mm ²
enn ESE532 Spring 2017 – DeHon	50



- 3.3B transistors
- enn ESE532 Spring 2017 -- DeHon



