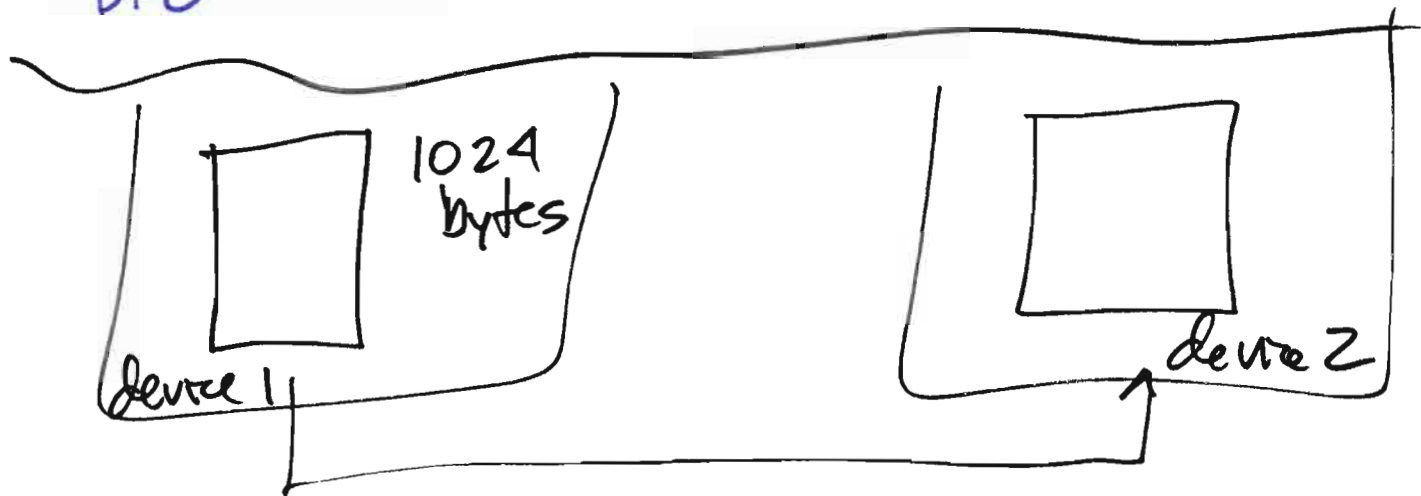
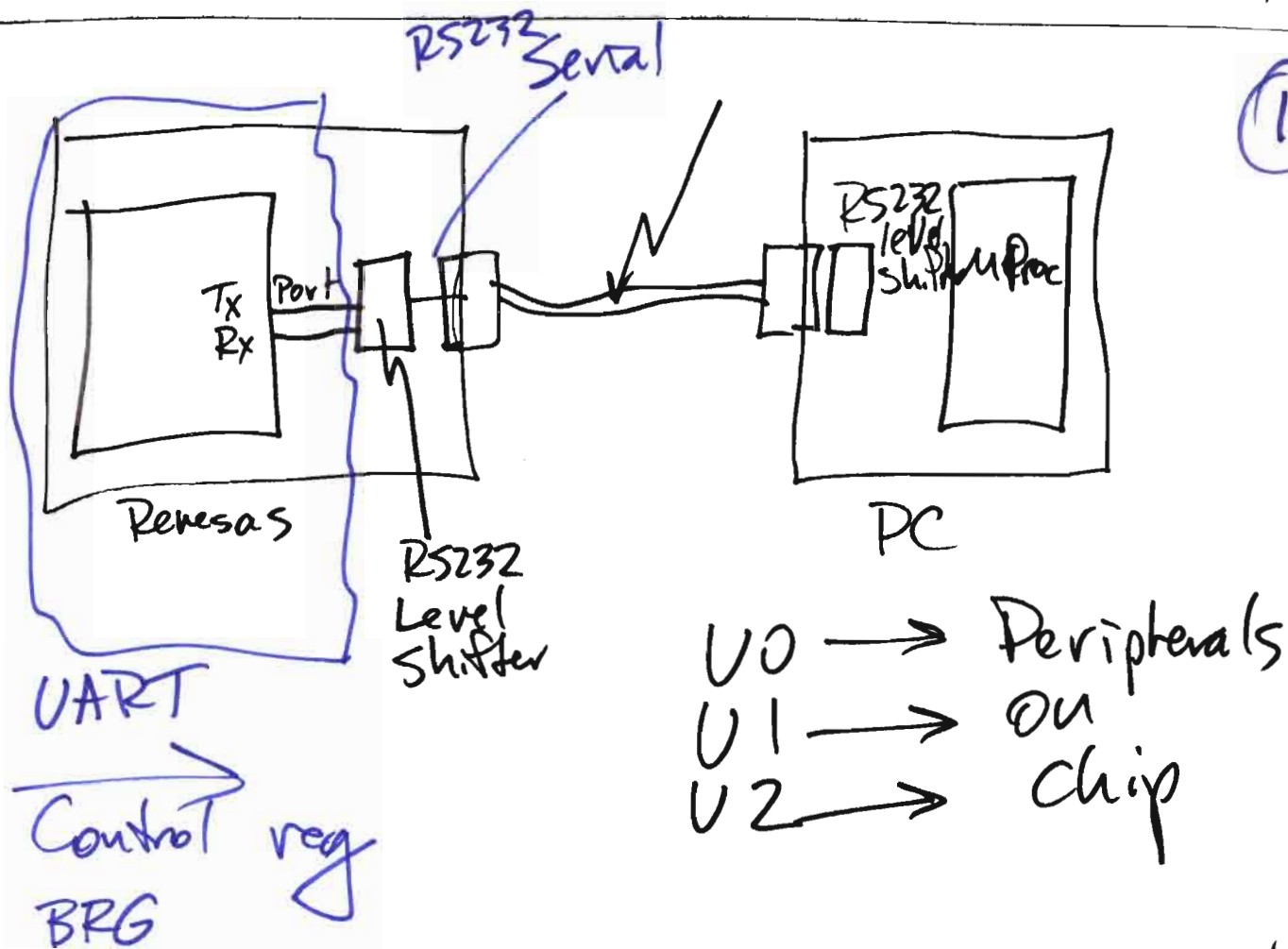


ECGR 4101/5101 - Lecture 15 - Fall 2009

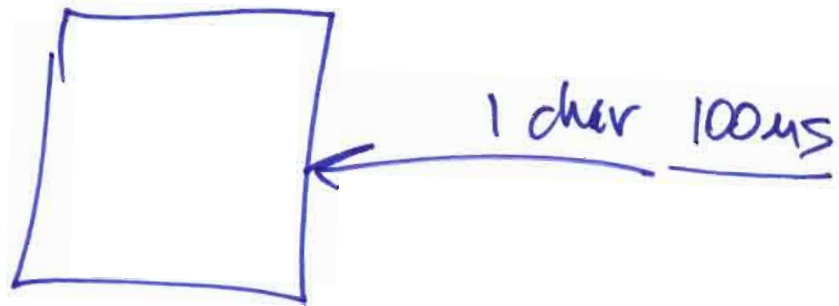
①



- 1) Parity: each byte transmitted ok
Problem → even number of error per byte
- 2) CRC/Checksum
Problem → all data invalid

ECGR4101/S101 - Lecture 15

②



10000 bytes per second
bits per second? (3 overhead bits per
byte), 110000 bps

What to do?

function:

- * read the byte
- * calculation byte
- * comparison
- * save results
- * transmit byte on uart line

30-
106msec

overhead

- Interrupt →
- 1) finish current instruction
 - 2) find out ISR / interrupt
 - 3) go PC to ISR
 - 4) ISR (96msec)

ECGR 410V/5101 - Lecture

ISR →

read byte
store byte in a queue
Return

1msec (3)

Main Pgm
Calculation
Comparison
Save results
Transmit

29
105msec
avg 65msec

Through Notes 12-4