EEL 3701: Digital Logic & Computer Systems

Class 37-38 — Thur, 20 July 17

• Today’s Handouts:
  > www: Lab 6; starts Tues, 18 July
  > www: Lab 7; starts Tues, 25 July
  > www: HW 10; due never, but …
  – Will discuss on Thur, 20 July
• Bring GCPU handouts to all classes
• Class on Tues, 25 July: More Digital Logic & Comp Sys
• Class on Thur, 27 July: Exam 2b HELP session
• Drop deadline: Fri, 28 July @11:59pm
• I will be gone from Fri, 21 July through Mon, 31 July
• Today:
  > HW 10 solved
  > GCPU hardware (in Quartus) and documentation
  > Example assembly programs, hand assembly
  > More Lab 7 discussion/questions
  > More programming
  – BC, BNC, BRA, others?
  – New ZERO flags and NEGATIVE flags

Questions?

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Class 35-36 — Tues, 18 July 17

• Today’s Handouts:
  > www: Lab 6; starts Tues, 18 July
  > www: Lab 7; starts Tues, 25 July
  > www: HW 10; due never, but …
  – Will discuss on Thur, 20 July
• Bring GCPU handouts to all future classes
• Today:
  > Memory Decoding (HW 7: Lam: Prob 6.30)
  > Lab 7 discussion
  > GCPU
  – Good phone dialer
  – GCPU hardware and documentation
  > Example assembly programs, hand assembly
  > Creating new GCPU instructions:
  – INCA, DECA (same with B)
  – Carry output flag, Carry input
  – SUM BA with carry
  – BC, BNC, BRA, others?
  – New ZERO flags and NEGATIVE flags

Questions?
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Class 33-34 — Thur, 13 July 17

• Today’s Handouts:
  > www: Lab 5; ends Mon, 17 July
  > www: HW 9; due Thur, 13 July
  > www: Lab 6; starts Tues, 18 July
  > www: Lab 7; starts Tues, 25 July
    - Read and bring printout for Thur, 18 July class
  > www: HW 10; due never, but …
    - Will discuss on Thur, 20 July
  > GCPU Handout
    - Bring GCPU handouts to all future classes

• Today:
  > Lecture 24: GCPU, Comp Org, 68HC11, Assembly, slides 55-…
    - Better phone dialing example
    - GCPU hardware and documentation
    - GCPU hardware (in Quartus) and documentation
    - Lab 7 discussion

Class 31-32 — Tues, 11 July 17

• Today’s Handouts:
  > www: Lab 5; starts Tues, 11 July
  > www: HW 9; due Thur, 13 July
  > www: Lab 6; starts Tues, 18 July
    - Read and bring printout for Tues, 11 July class
  > www: Lab 7; starts Tues, 25 July
    - Read and bring printout for Thur, 18 July class
  > GCPU Handout
    - Bring GCPU handouts to all future classes
  > Exam 1 and Exam 1 regrades

• Today:
  > Lecture 24: GCPU, Comp Org, 68HC11, Assembly, slides 1-54
    - GCPU hardware and documentation
  > Lab 6 discussion
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Class 29-30 — Thur, 6July17

- Today’s Handouts:
  - www: Lab 4; ends Mon, 10 July
  - www: Lab 5; starts Tues, 11 July
  - www: HW 9; due Thur, 13 July
  - www: Lab 6; starts Tues, 18 July
    - Read and bring printout for Tues, 11 July class
  - www: Lab 7; starts Tues, 25 July
    - Read and bring printout for Thur, 18 July class

- Today:
  - Exams returned
    - Exam 1 Statistics (Exam1_info)
    - Exam 1 solutions (solutions not posted)
    - Regrade petitions due at end of class!!!
  - Lab 5 questions
  - Lecture 21: PLDs, CPLDs, slides 1-…
  - Lecture 22: Various Combinatorial Design Techniques, slides 1-…

Questions?

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Class 27-28 — Thur, 29June17

- Today’s Handouts:
  - www: Lab 4; starts Wed, 5 July
    - Note that Tuesday labs will be on Thur
  - www: Lab 5; starts Tues, 11 July
  - www: HW 7; due Fri, 30 June
  - www: HW 8; due Wed, 5 July
  - By the end of today’s class, we have covered all HW except last
  - Exam 1 returned Thur, 6 July
  - Regrade petitions due at end of this class break

- Today:
  - Exam discussion
  - Lab 4 questions
  - Lab 5 discussion!!!
  - Lecture 18: ASM Design, slides ...
    - ASM/Timing: Lann Problems 7.3, 7.4, 7.15
  - Lecture 20: Intro to VHDL, slides ...
    - Demonstrate example in Quartus of VHDL,
      Schematic Entry, and creating a graphical component
      • Project | Set as Top Level Entity
  - Lecture 15: IC Characteristics, slides 1-…
  - Lecture 23: Parallel vs Serial, slides 1-…

Questions?