The Important Stuff (Class)

• MWF 11:00-11:50 in Alden 101
• Lab T 2:30-4:20 in Alden 101
• Prerequisites: CMPSC112 (but 111 is OK)
• Required textbooks:
  – *The C Programming Language* by Brian Kernighan & Dennis Ritchie, 2nd edition
The Important Stuff (Me)

• Prof. John Wenskovitch
• Alden 104
• jwenskovitch@allegheny.edu
• Office Hours on Google Calendar
• I’m here because Bob Roos is on sabbatical
The Less Important Stuff (Me)

- BS in Software Engineering + math minor + multimedia application domain from Gannon University (2009)
- MS in Computer Science from University of Pittsburgh (2011)
- PhD in Computer Science from Virginia Tech (2017... I hope... please...)
- **Hometown:** Lower Burrell, PA
- **Likes:** Scifi, astronomy, hockey, roadtrips, live music
- **Dislikes:** Literary analysis, mornings, days warmer than 80F, students who don’t ask questions
The Moderately Important Stuff (Class)

• Grading!
  – Exams 1-3 (10% each)
  – Final Exam (20%)
  – Projects and Labs (30% total)
  – Final Project (10%)
  – Attendance & Participation (10%)
Some Other Degree of Importance (Class)

• Weekly labs
  – Dedicated time to work on the labs each week
  – Due prior to the next lab session

• 3 programming projects
  – External to class meetings
  – Due 2-3 weeks after being assigned
Late Policy

• If it’s late, you get penalized
  – 20% up to one week
  – 100% after one week

• If you can’t get to class, tell me in advance
• If you’re sick, please get me documentation
• Don’t schedule vacations during exams!
What will I learn?

1. How to write programs in C
2. How to write programs in MIPS (maybe ARM and Intel if there’s time)
3. How computers represent numbers internally
4. How logic gates work to create the processor datapath
What will I learn?

5. What happens to my program when I compile/run?

6. How does the processor know what to do with my program?

7. Why is my program running so slow?

8. How can I make my program run faster?

9. Why are we shifting from sequential programs to parallel programs?
Class Structure

• **Weeks 1-2** = Under the hood, performance
• **Weeks 2-5** = MIPS and C
• **Weeks 6-7** = Number representation
• **Weeks 8-11** = Datapath
• **Weeks 12-15** = ???
Important Dates

• EXAM 1 WILL BE ON SEPTEMBER 19
• EXAM 2 WILL BE ON OCTOBER 10
• EXAM 3 WILL BE ON NOVEMBER 7
• FINAL EXAM WILL BE ON DECEMBER 16
Less Important Dates

• I’m in Paris November 10 – November 14
• I’m in Shenzhen December 1 – December 5
Any Questions?