Operating Systems

Some history and advice as we begin our adventure.
Some Final Grades

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There were no incompletes that year.
There won’t be this year either. Don’t even ask.
Some Midterm vs. Final Grades

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<tr>
<th>Mid-term Value</th>
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-24.9
Advice

- Attend every class. Don’t miss even one.
- Put your devices away and pay attention in class.
- Take notes in class (in pencil) on paper.
- Rewrite your class notes into a new notebook as a form of studying.
- Do every lab. Write them up in LaTeX.
- Work on your project every day. Commit to GitHub at least once a day if not more frequently.
ADVICE from Dr. Helen Rothberg

- **Action** — Do more, say less. Pursue your interests. Ask for help when you need it.
- **Determination** — Stick to it and get things done.
- **Vision** — What are you trying to become? What do you want to do with your life? How will you get there?
- **Integrity** — Tell the truth all the time. Don't create or participate in drama.
- **Communication** — Be attentive and dig in, even if it's hard.
- **Empathy** — Dare to care about yourself and others.
Do Not Make Excuses

- I love Chris Algozzine, but I don’t give a damn about Capping.

- This person failed the class.

----- Original message -----  
To: Alan Labouseur/FAC/Marist@Marist  
Subject: Projects  
Date: Sun, Dec 9, 2018 8:33 PM  

Also, I wanted to say sorry for the subpar work. I've just been incredibly overwhelmed by capping. I enjoy having you as a professor and I don't want you to think I'm just blowing your class off, I've just been trying to keep my head above water.

- Don’t even mention Capping to me or you’ll fail too.

- Work on your OS every day.
**Do Not Make Excuses**

- This is not acceptable:

  ```
  ----- Original message ----- 
  To: Alan Labouseur/FAC/Marist@Marist
  Subject: RE: Projects

  Hi Professor Labouseur,

  I just looked at my email this morning, I'm surprised you didn't get my work. I thought I pushed it Sunday, But I now realize I didn't set upstream origin for the branch, so it didn't actually get pushed. I've just re-pushed this morning so you can review it.
  ```

- I did not “review it”. The grade remained the same.

- If you cannot figure out GitHub, you do not deserve a Computer Science degree.

- Speaking of GitHub . . . .
GitHub Commit Graphs

A

A-

B
GitHub Commit Graphs

C

D

F
These are individual projects. All work must be your own.

Any violation of this will result in your immediate and automatic failure of this class.

This is your only warning. The next time we talk about this it will be in the context of me telling you that you have failed this class.

I am serious. Ask prior students.
Academic Honesty

- I will be checking all your code against...
  - your class
  - other classes
  - all past projects
  - the hall of fame
  - and...

Past Project Hall of Fame

- 2017
  - TerminaTimeOS by Tien Liengtiprathan
  - KaiOS by Kai Wong
  - EXZOS by Zack Recolam
  - ChaOS by Jack Grzechowiak

- 2016
  - The Oppy by Brendan Boldt
  - Krat-OS by Sami Eloufani
  - Uranus OS (GLaDOS enabled) by Kyle Bradshaw
  - HAXOS (GLaDOS enabled) by Liam Harwood (run in Chrome)

- 2015
  - PhazonOS by Chris Barnett
  - WesterOS by Zack Meath
  - NathanOS by Nathan Fahmmer
  - Joe/S by Joe Archer
  - CheiOS by Nikol Pettine

- 2014
  - ciOS by Anthony Barranco
  - MysterIOS Bloop by Rebecca Murphy

- 2013
  - SvegOS by Justin Svegliato
  - MS-BOS by Robert Nisco
  - Charon by Daniel Rogers
  - ChronOS in OmnisChron by Chris Cordisco

- 2012
  - ChronOS by Chris Cordisco
  - J(OS)EPH by Joey Cabibbo
Academic Honesty

I will be checking all your code against...
- your class
- other classes
- all past projects
- the hall of fame
- and...
- GitHub
I will be using MOSS to help detect cheaters. See theory.stanford.edu/~aiken/moss/

Moss

A System for Detecting Software Similarity

UPDATES

- Feb 1, 2018 And even more community contributions have been added!
- Nov 9, 2017 More community contributions have been added below ...
- Aug 31, 2017 Thanks to Christophe Troestler for an OCaml client for Moss.
- May 18, 2014 Community contributions (including a Windows submission GUI from Shane May, thanks!) are now in their own section on this page.
- May 14, 2014 And here is a Java version of the submission script. Thanks to Bjoern Zielke!
- May 2, 2014 Here is a PHP version of the submission script. Many thanks to Phillip Rehls!
- June 9, 2011 There were two outages over the last couple of days that lasted no more than a hour each (I think). I’ve made some changes to the disk management software that should prevent these problems from recurring.
- April 29, 2011 There was an outage lasting a few hours today, the first since last summer, but everything is back up.
- August 1, 2010 Everything is back to normal.
- July 27, 2010 The Moss server is back on line. There may be some more tuning and possibly downtime in the coming weeks, but any outages should be brief. New registrations are not yet working, but people with existing accounts can submit jobs.
- July 25, 2010 As many (many!) people have noticed, the Moss server has been down for all of July. Unfortunately the hardware failed while I was away on a trip. I am hopeful it will be back up within a few days.

What is Moss?

Moss (for a Measure Of Software Similarity) is an automatic system for determining the similarity of programs. To date, the main application of Moss has been in detecting plagiarism in programming classes. Since its development in 1994, Moss has been very effective in this role. The algorithm behind moss is a significant improvement over other cheating detection algorithms (at least, over those known to us).
Write Original Code

- Comments
- Variable names
- Code conventions and style
- Structure
- Modularization