



CS 5204 Operating Systems Lecture 2

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Announcements


- Need to actually submit force-add form
- Project – will give handout with details next week
 - but do start thinking about it
- Honor code reminder
 - acknowledge sources used during presentations



CS 5204 Fall 2005 8/24/2005 2

Reading List


- Topics reflect what I think graduate students should know about operating systems, and systems students in particular
 - Some papers are “classics”, some are brand new
 - Willing to exchange papers to match your interests; however: quality must match that of existing list
- Please sign up for a paper
 - ✓ means already taken
 - Check website



CS 5204 Fall 2005 8/24/2005 3

Topic I: Concurrency


- Eraser ✓
- On the duality of OS structures ✓
- SEDA ✓
- Capriccio



CS 5204 Fall 2005 8/24/2005 4

Topic II: Distributed Systems


- Remote Procedure Calls ✓
- Clocks & Event Ordering
- Leases ✓
- Byzantine Fault Tolerance
- End-to-End Argument ✓



CS 5204 Fall 2005 8/24/2005 5

Topic III: Scheduling

- Effects of clock resolution ✓
- VTRR (Virtual-time round robin scheduling)



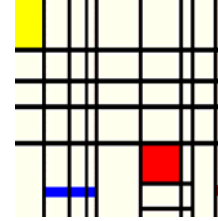
CS 5204 Fall 2005 8/24/2005 6

Topic IV: File Systems

- Transactions ✓
- Journaling vs Soft Updates ✓
- Google FS ✓

Topic V: Virtual Memory

- Mach ✓
- Mondrix
- Asbestos ✓



Piet Mondriaan (1872-1944)
Rouge, jaune, bleu, 1921

Topic VI: Kernels

- Exokernel
- SPIN

Topic VII: Reliability

- Metal
- SFI
- Nooks
- Rx

Topic VIII: Virtual Machines

- KaffeOS
- Xen