Test average 75%

- P1 office "how" Oct 31, 2-5, BA4270

- SLOGs: write a little weekly

CSC104 winter 2013

Computational thinking

week 8

heap@cs.toronto.edu
BA4270 (behind elevators)
http://www.cdf.toronto.edu/~heap/104/F12/
416-978-5899

Danny Heap

Text: Picturing Programs

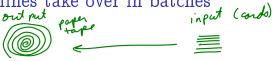


Outline

operators and operating systems

Notes

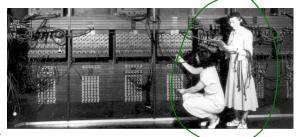
machines take over in batches



Machines began to take over setting the program counter to a new job, collecting the output, fetching memory...but it was still one job at a time.

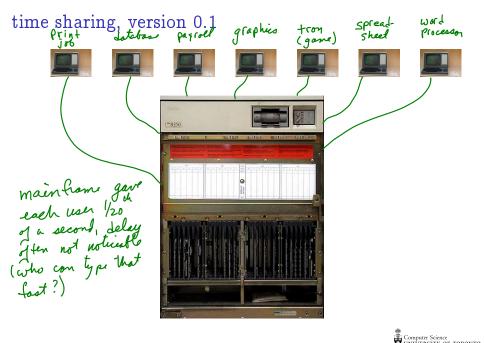
waited in another room

if there was a bug, go to the end of the line





operators



one user, one program, one computer

- often used to run one program that was custom-written for that hardware - no need for OS to sort out

TRS

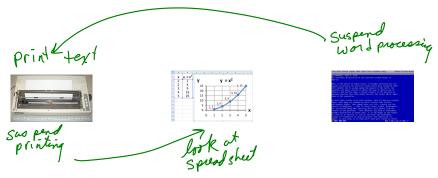
early 1BM





- no need for multi-tasking, retworking, etc.

task-switching to time-splitting, v 1.0



Does one task stop, or only appear to stop, for the other?
This awkward schem was much better than
turning of and completely re-starting programs.

unix (mostly) to the desktop

GUIs, time-sharing, petworking, flame-wars home, more demonds...

Mae runs 850 unix "underneath"

Windows NT got unix-like powers, then





Linux -> small malket share, uses unix variet



- multi-lasking - networking - multi-user support.

an operating system should have

any operating system will give

kernel (shell, shielded access to hardware, referee sharing)

· utilities (backup, restore, defrag disk)

Choose an OS based on

- your social network

- the apps you plan to run

Notes

