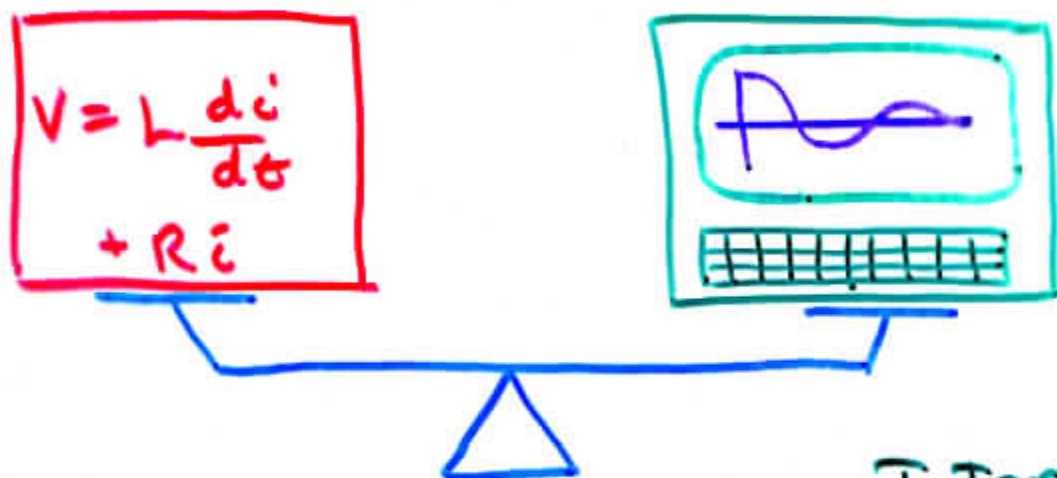


PLAN FOR
EECS DEPARTMENT
EDUCATIONAL COMPUTER FACILITY

JEROME H. SALTZER
CHAIRMAN,
AD HOC COMMITTEE
EDUCATIONAL
COMPUTER
RESOURCES

MODERN PROBLEM SOLVING:



Closed-form
Solutions



Present
Curriculum
Emphasis

Interactive
Computation
Models



Need some
weight over
here

GOALS:

Student needs practice choosing between equation or calculation

Student → Engineer in practice 5-20 yrs hence, when interactive computing is ubiquitous

Policy: Universal availability

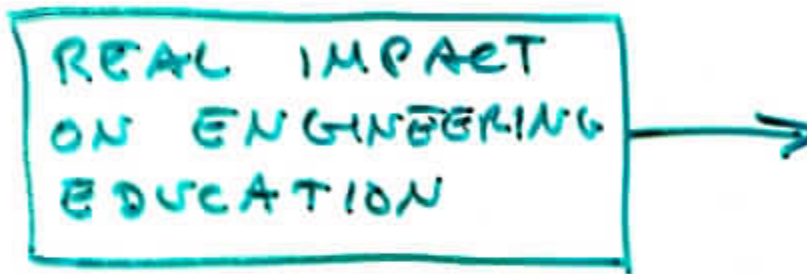
- library-like
- no charges
- no arguments
- no detailed justification for use

Today: limited availability, to students of certain subjects (Mostly CS)

OTHER POLICY POSITIONS:

GOAL

POLICY



INVOLVE
FACULTY



BUY
FACILITY,
NOT
SERVICES

NOT

Director

Assess

Instructions

~~Use computer to help
Teach subject X~~

Interactive
Problem
Solving

Use computer to
help solve problems
raised by subject X

ELEMENTS OF PLAN

- Interactive system (~90 users)
Big TSS (TENEX, DTSS, Multics, ...)
or
Fleet of minis (UNIX, HP-3000, ...)
- Four languages
APL } EE
FORTRAN }
LISP } CS
PASCAL }
- 200 terminals
HACF for students
one / faculty member
dial-in from dorms, frats
- Network to research computers
- Message system
- Minimize custom software development

COST

\$2-3M purchase + \$150-200k/yr
operation

FUNDING

M.I.T. "LEADERSHIP CAMPAIGN"

TIMETABLE

ASAP-- needed now

(if funded now → Fall '77 startup)

OCTOBER, '76 STATUS

Policy statement out

Requirements statement in last draft

Starting 3-4 detailed proposals

Funding requests → M.I.T. administration