Plan for
EECS Department
Educational Computer Facility

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Chairman,
Ad Hoc Committee
Educational Computer Resources
Modern Problem Solving:

\[ V = L \frac{dc}{dt} + R \, i \]

Closed-form solutions

Present curriculum emphasis

Interactive computation models

Need some weight over here
G O A L S:

Student needs practice choosing between equation or calculation.

Student → Engineer in practice 5-20yrs 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:**
- **Real Impact on Engineering Education**
- **Resist Short-Term Budget Pressures**

**Policy:**
- **Involve Faculty**
- **Buy Facility, Not Services**
Not interactive

Problem

Stronger

Subject

Reach subject to help

Use computer to help

Raised by subject

Help solve problems
ELEMENTS OF PLAN

- Interactive system (~90 users)
  Big TSS (TENEX, DTSS, Multics, ...)
  or
  Fleet of minis (UNIX, HP-2000, ...)

- Four languages
  ABC
  FORTRAN
  LISP
  PASCAL

- 200 Terminals
  HALC 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