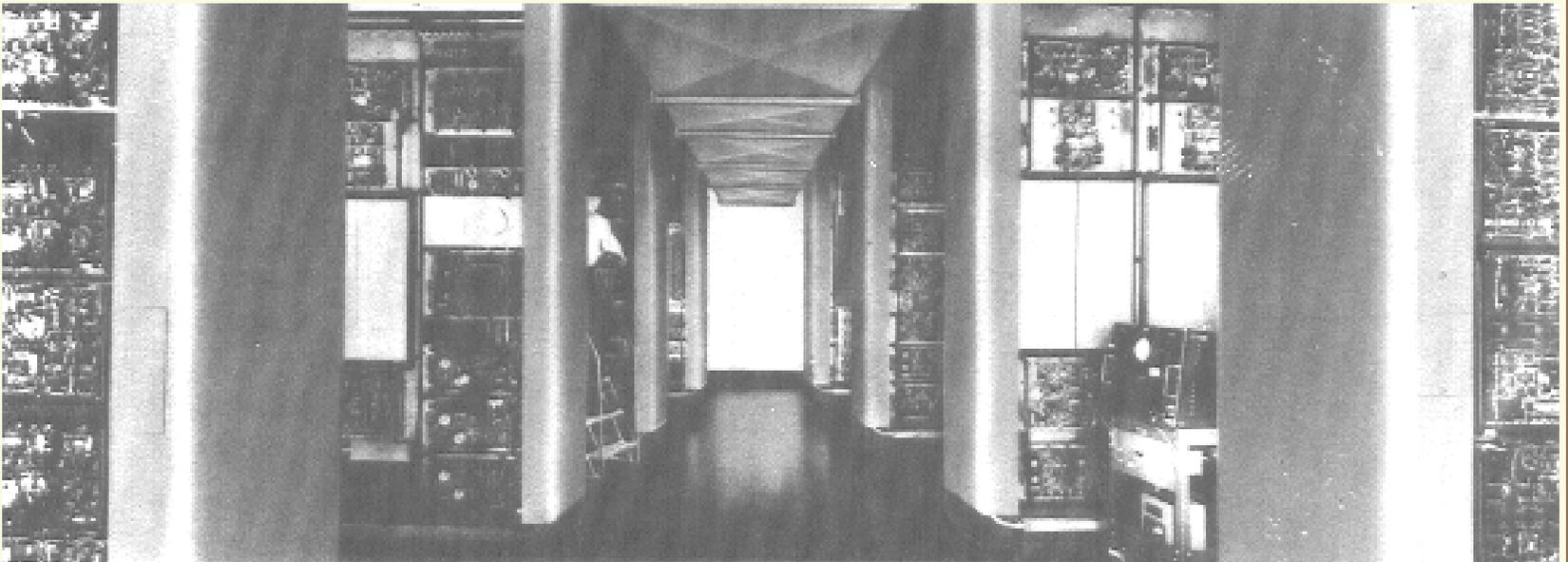


**(
T**

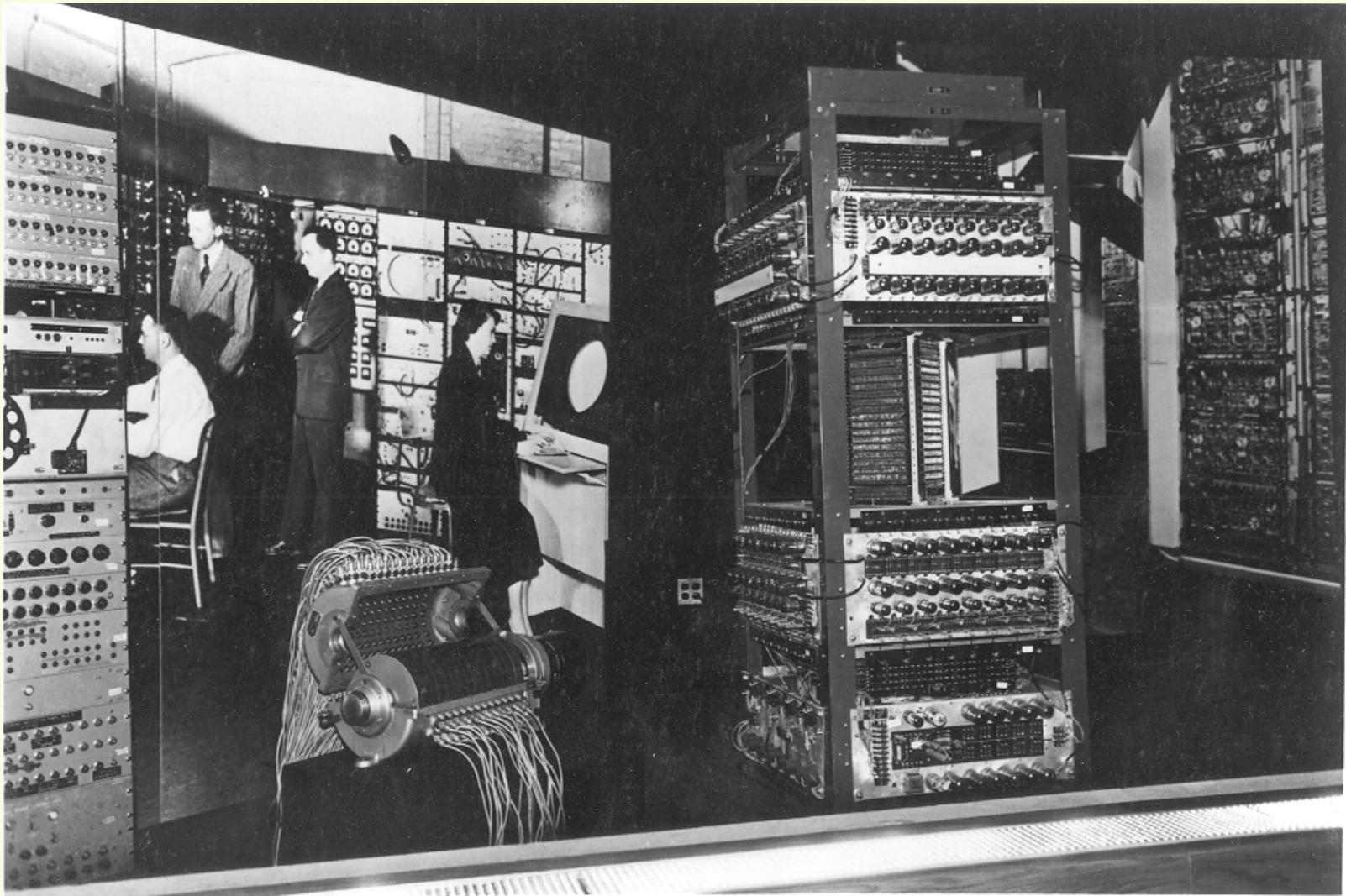
http

**Whirlwind c1953 ... 1st generation,
16-bit word; 4 KB memory; 8 K drum**



**Whirlwind begot TX-O/TX-2 begot DEC PDP-1
Real time, first compiler, ECAD, text editor**

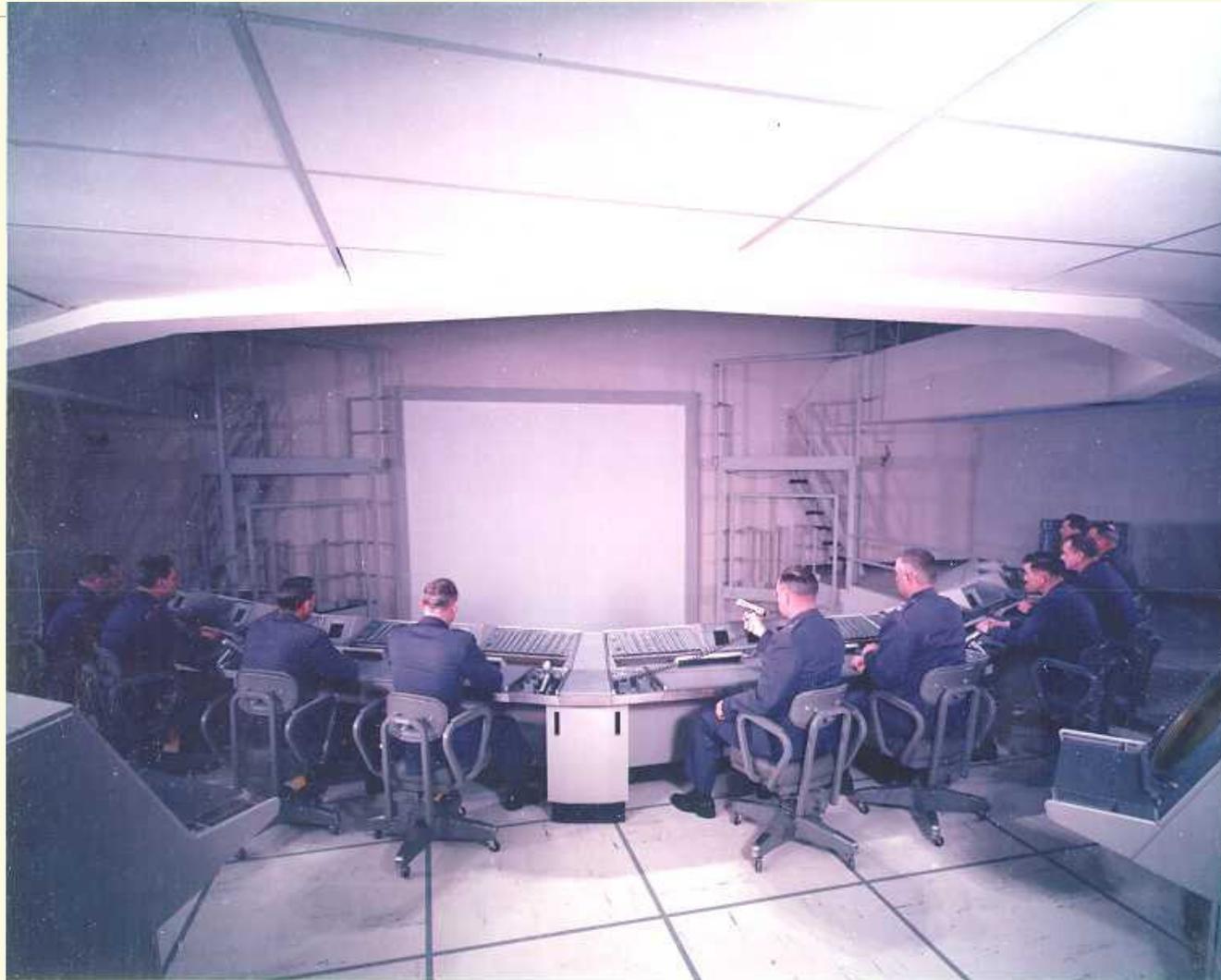
Whirlwind console, drum, 1 Kw core



SAGE (Semi-Automatic Ground Environment) Operator Console

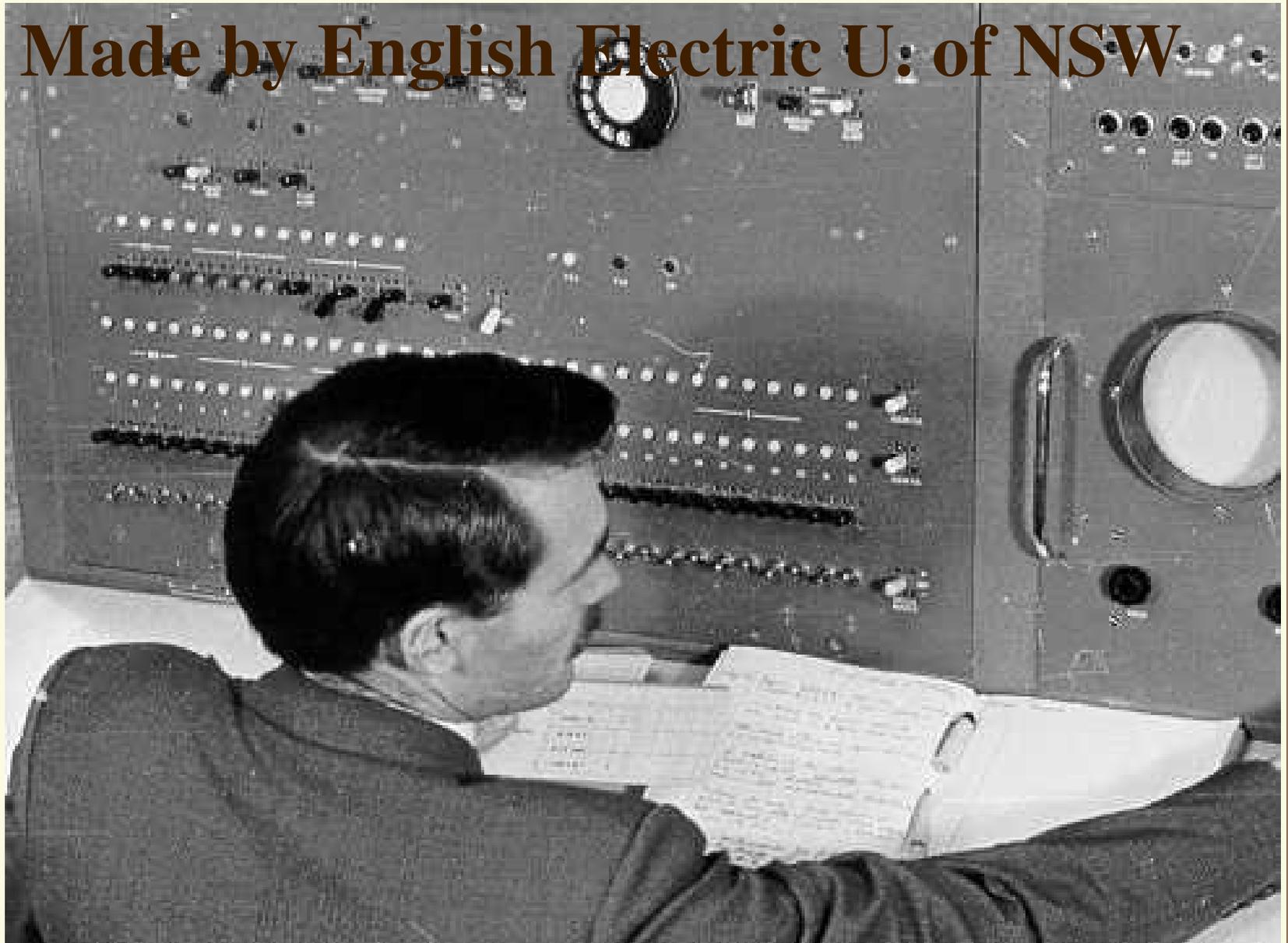


**SAGE Control Room c 1962.
Whirlwind used for first experiments.**

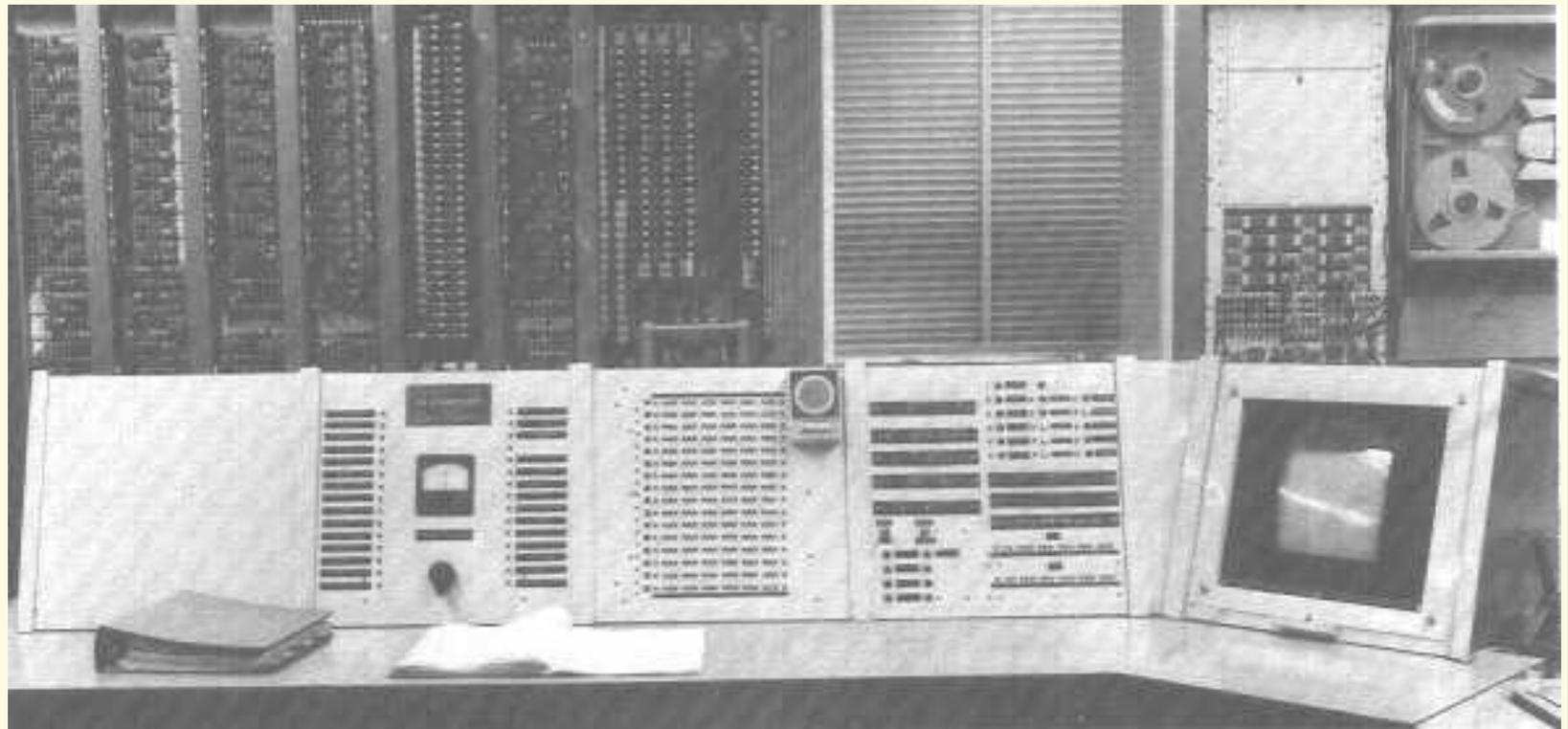


Ron Smart at Deuce Console 1955

Made by English Electric U. of NSW

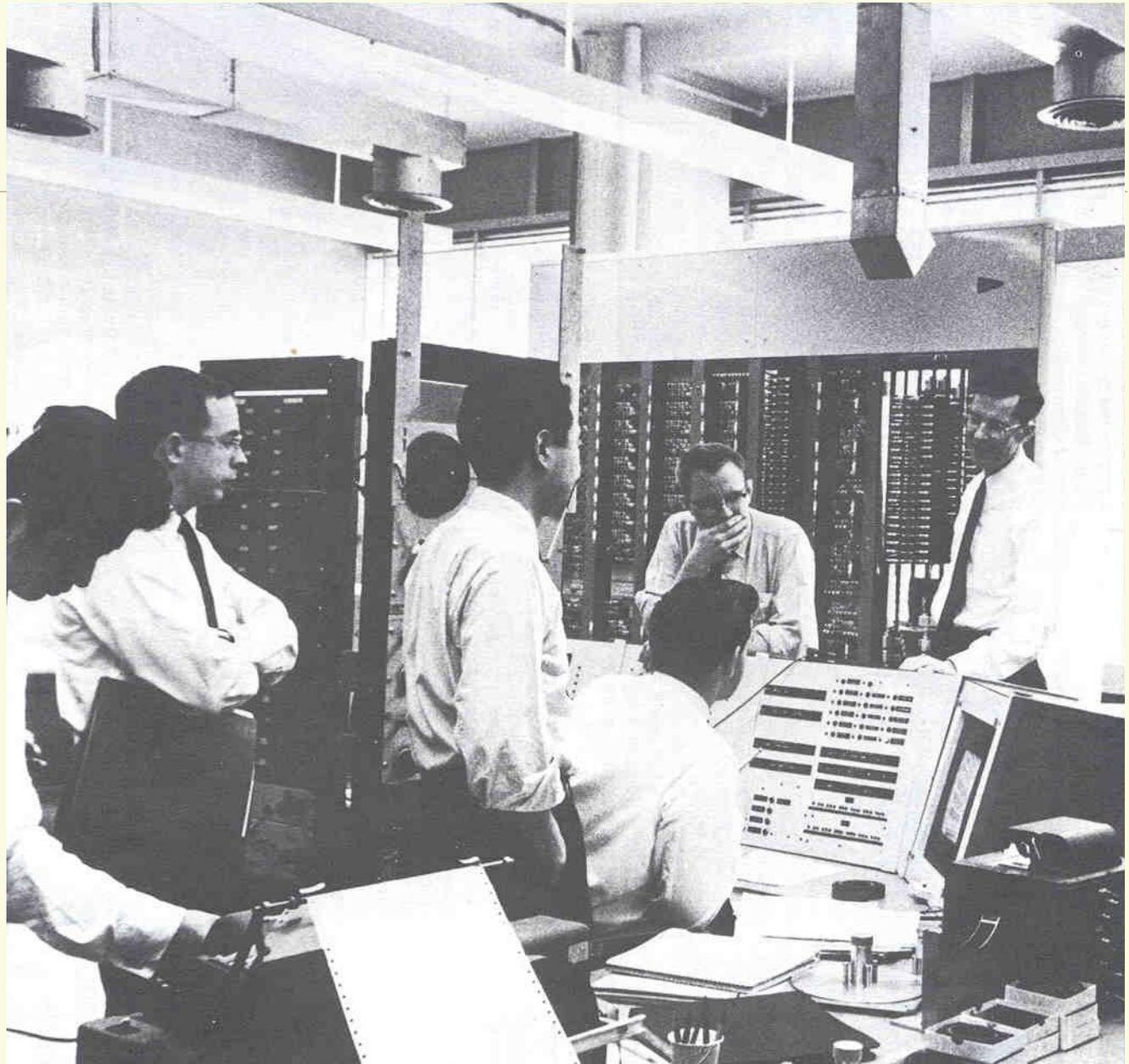


TX-0 Console c1959... one of the first transistorized *personal* computers



Speech, handwriting recognition, neuro data analysis, etc. Interactive editors, debuggers, etc.

**MIT
Speech
group
with
TX-0,
c1959.**

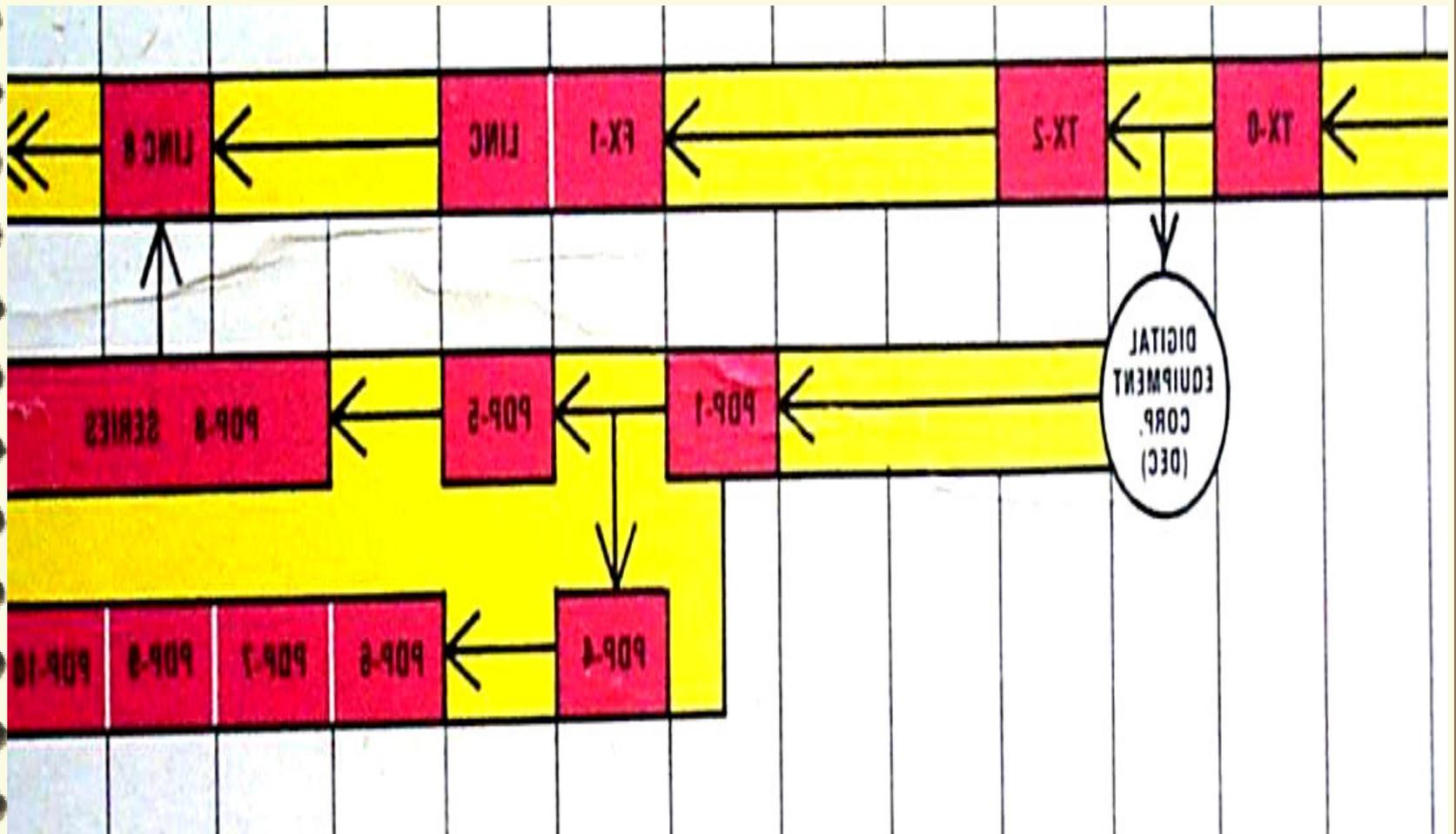


DEC Computer before PDP-11

1957

1961

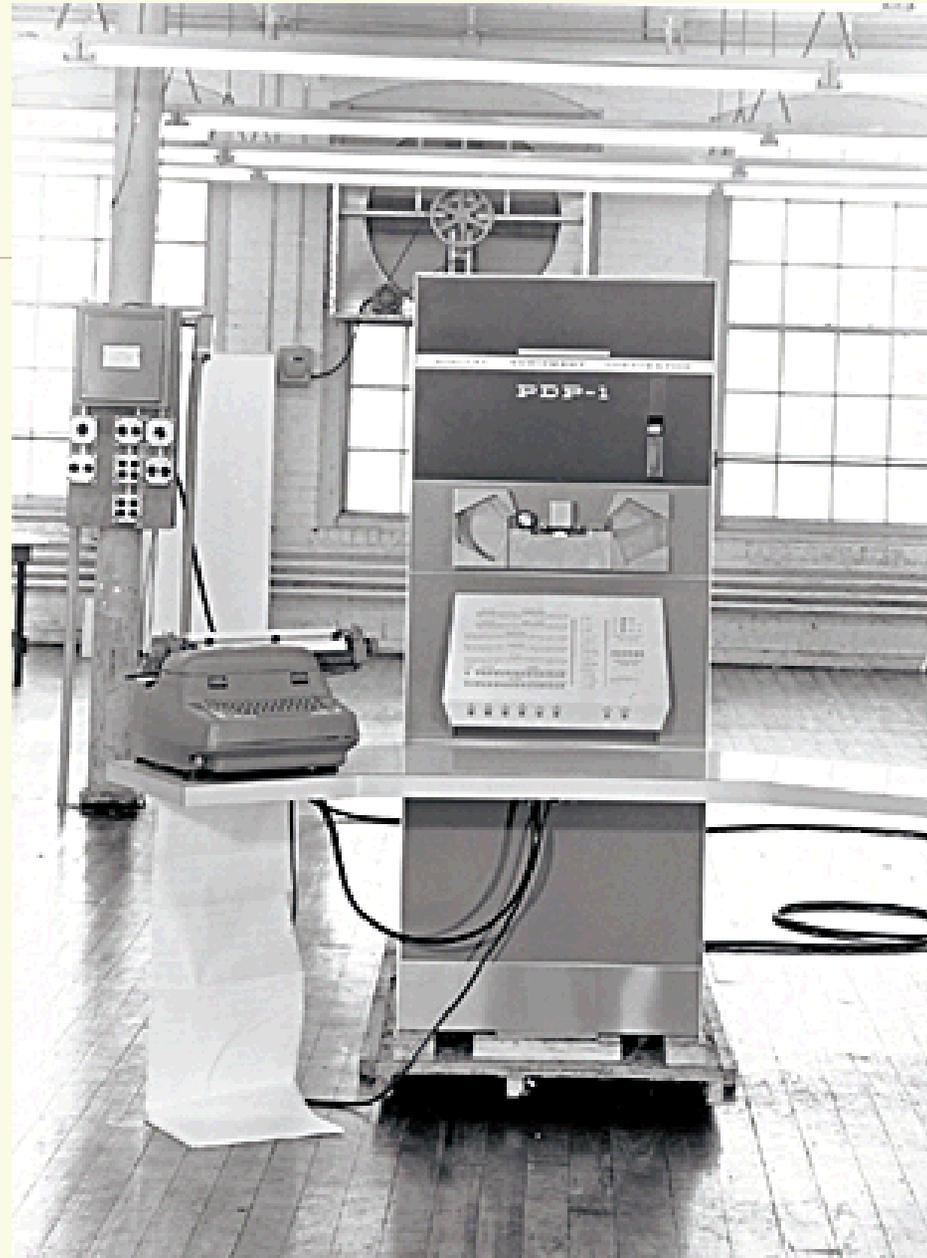
1963



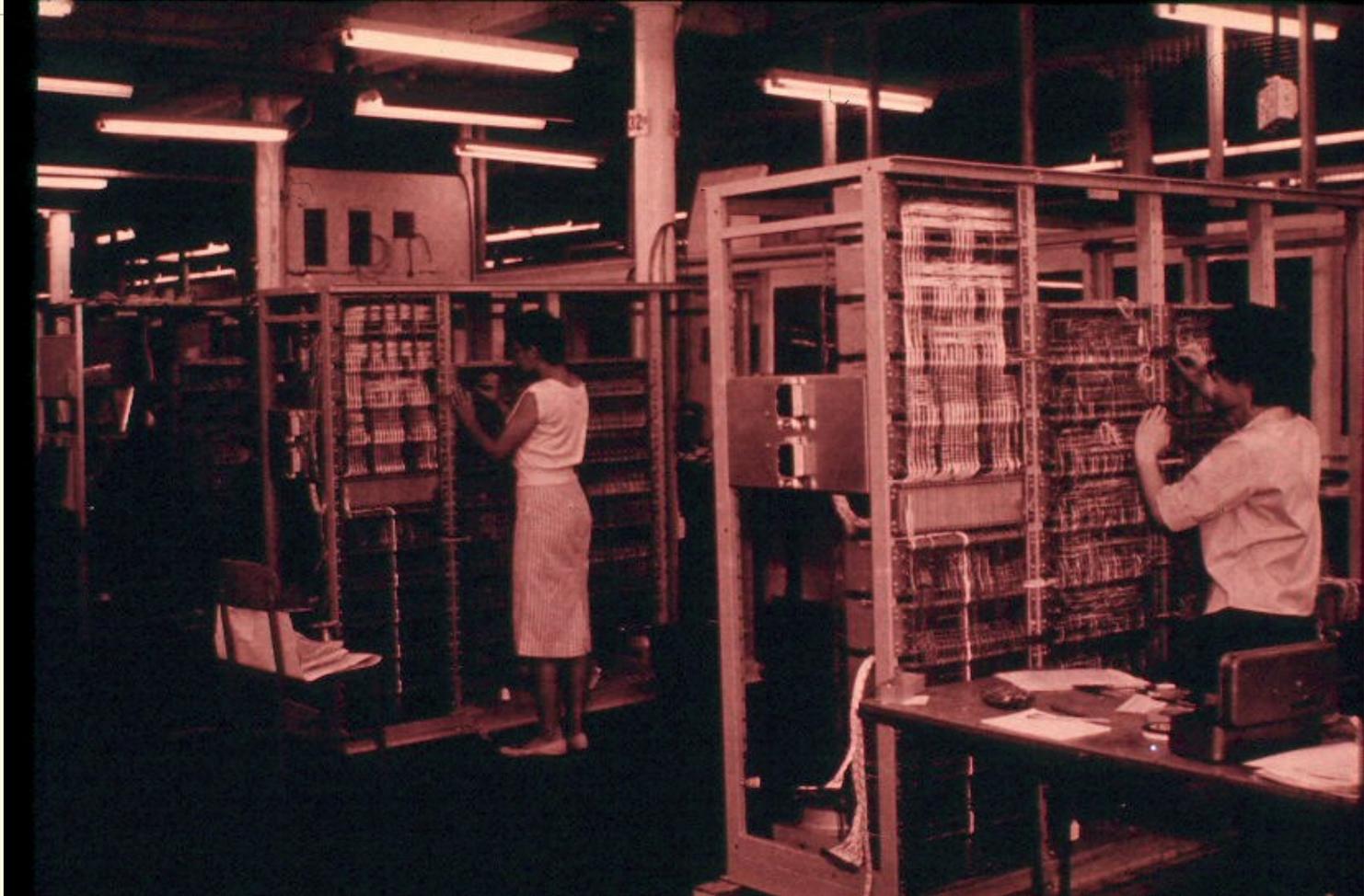
DEC PDP-1 c1961



DEC PDP-1
c1961
Being tested
Building ?



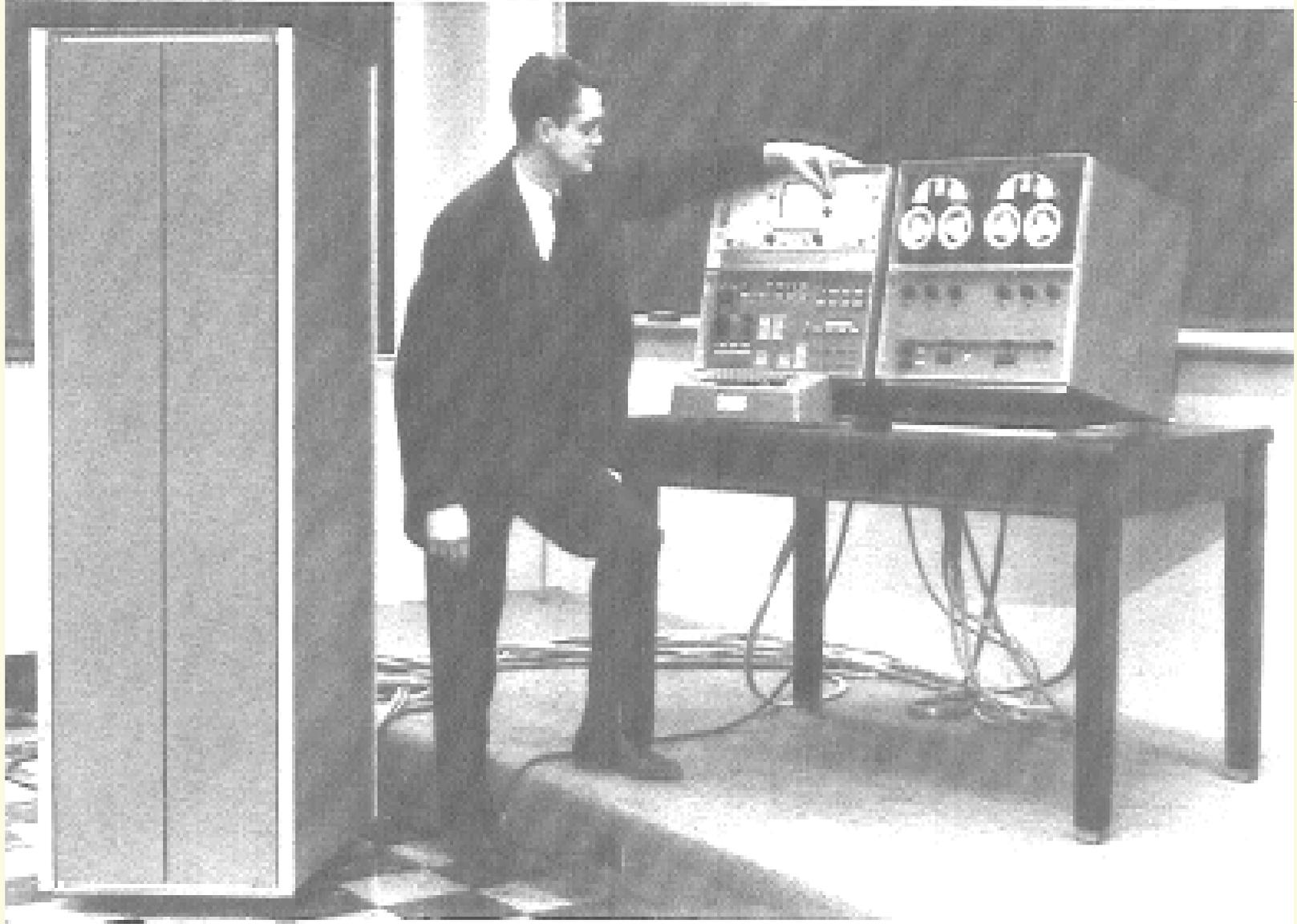
PDP-1 Production Line c 1962



Livermore Labs machine: they bought one of everything in our virtual catalog



Wes Clark & LINC c1962: Personal computers for bio-medical research



PDP-4



PDP-5 c1964: PDP-8 predecessor

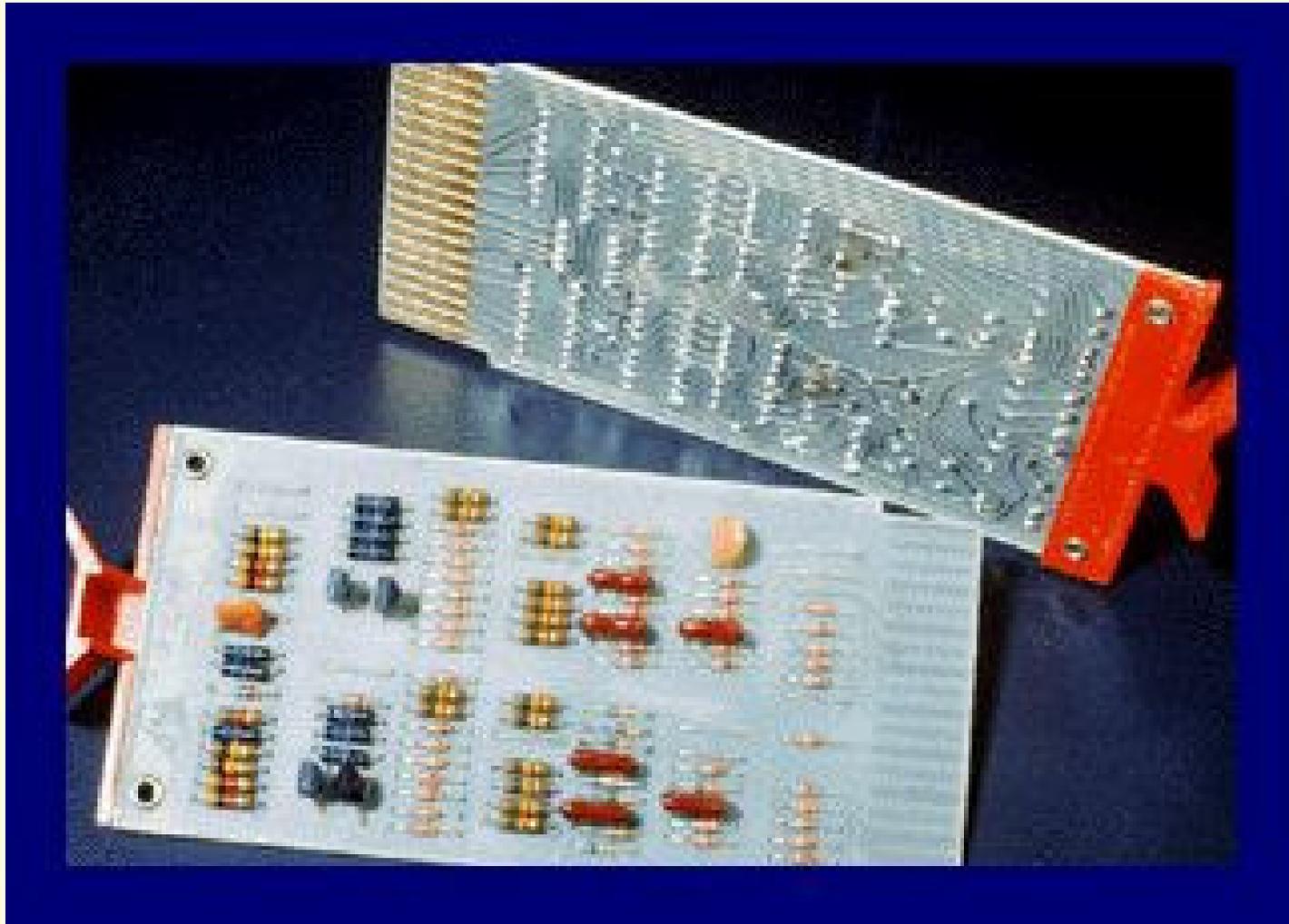


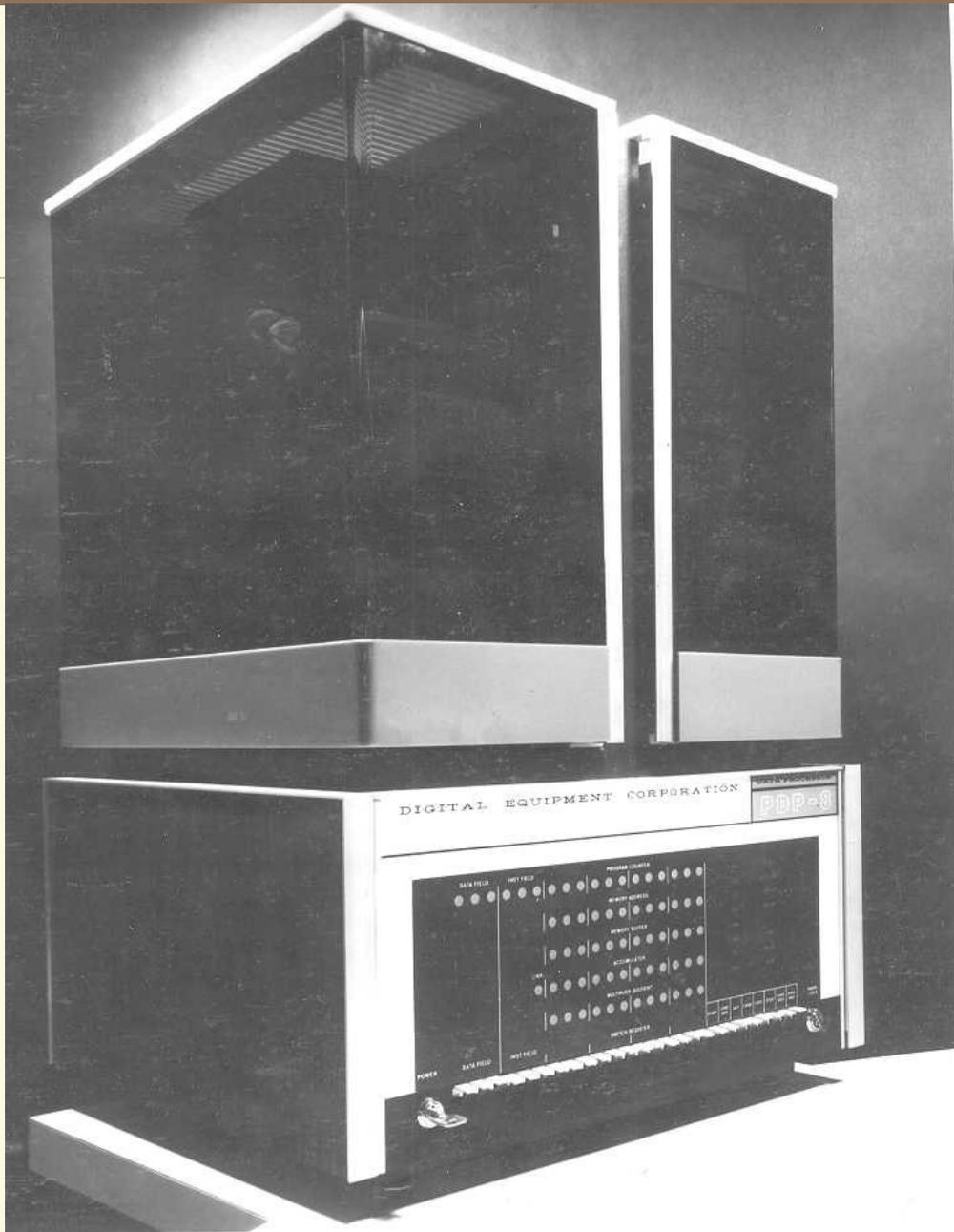
**Process control, real time experiments. Fortran
ran in 4 K, 12 bit words**

PDP- 5:
as
pulse
height
analyzer



PDP-8 Modules

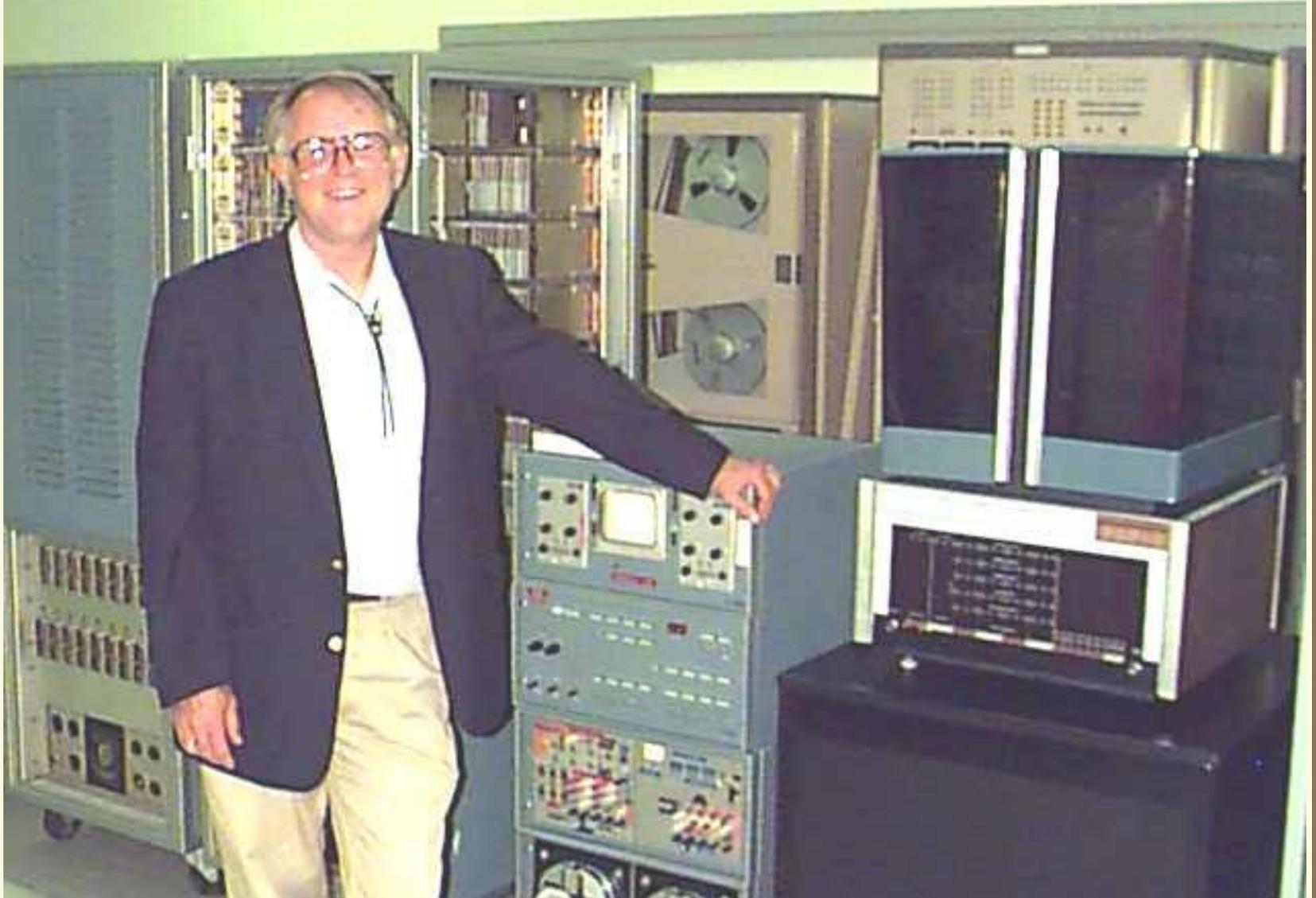




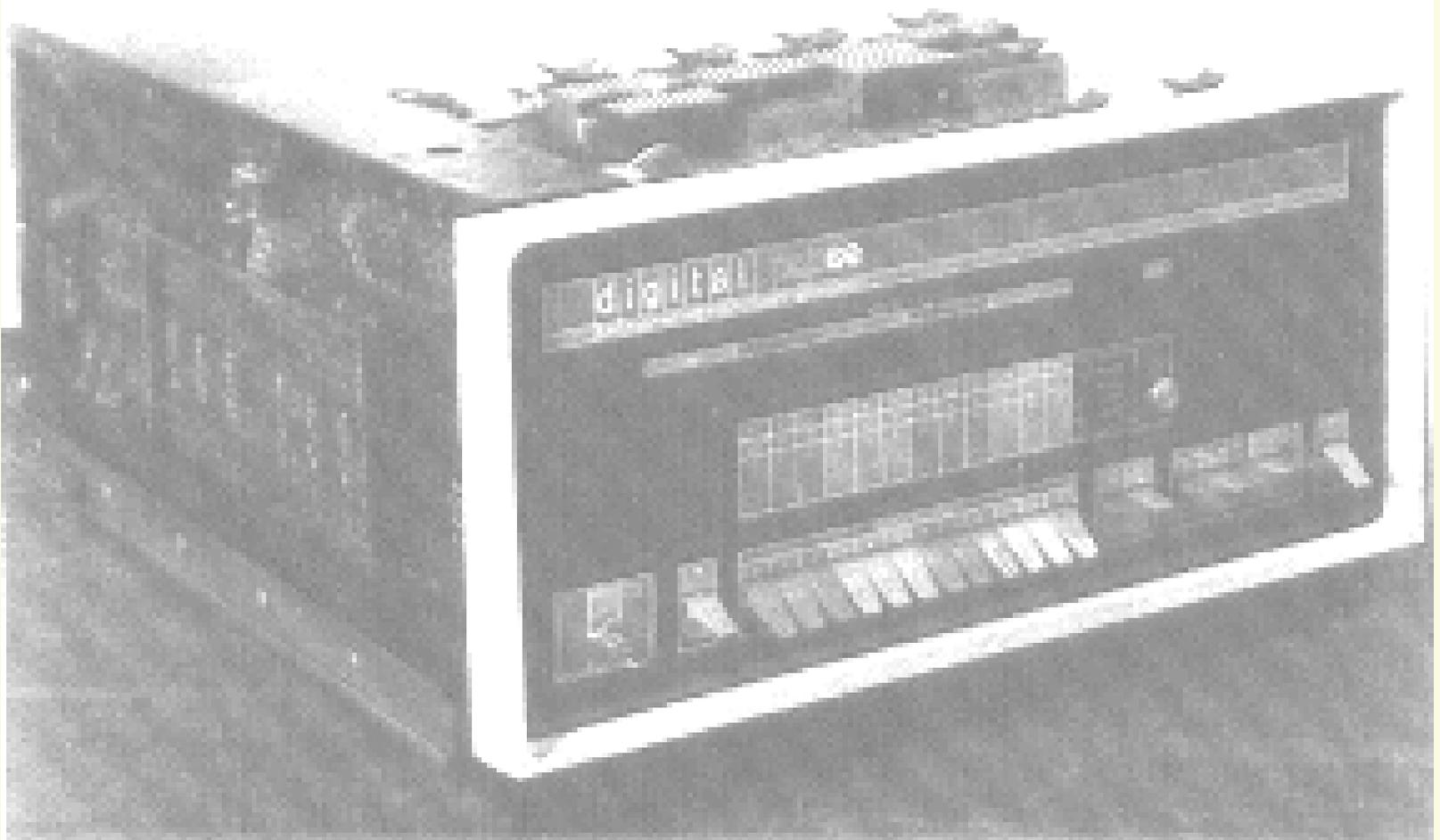
PDP-8: first mini

**First OEM
computer.
OS/8 (from
timesharing)
begot RT-11
begot CPM**

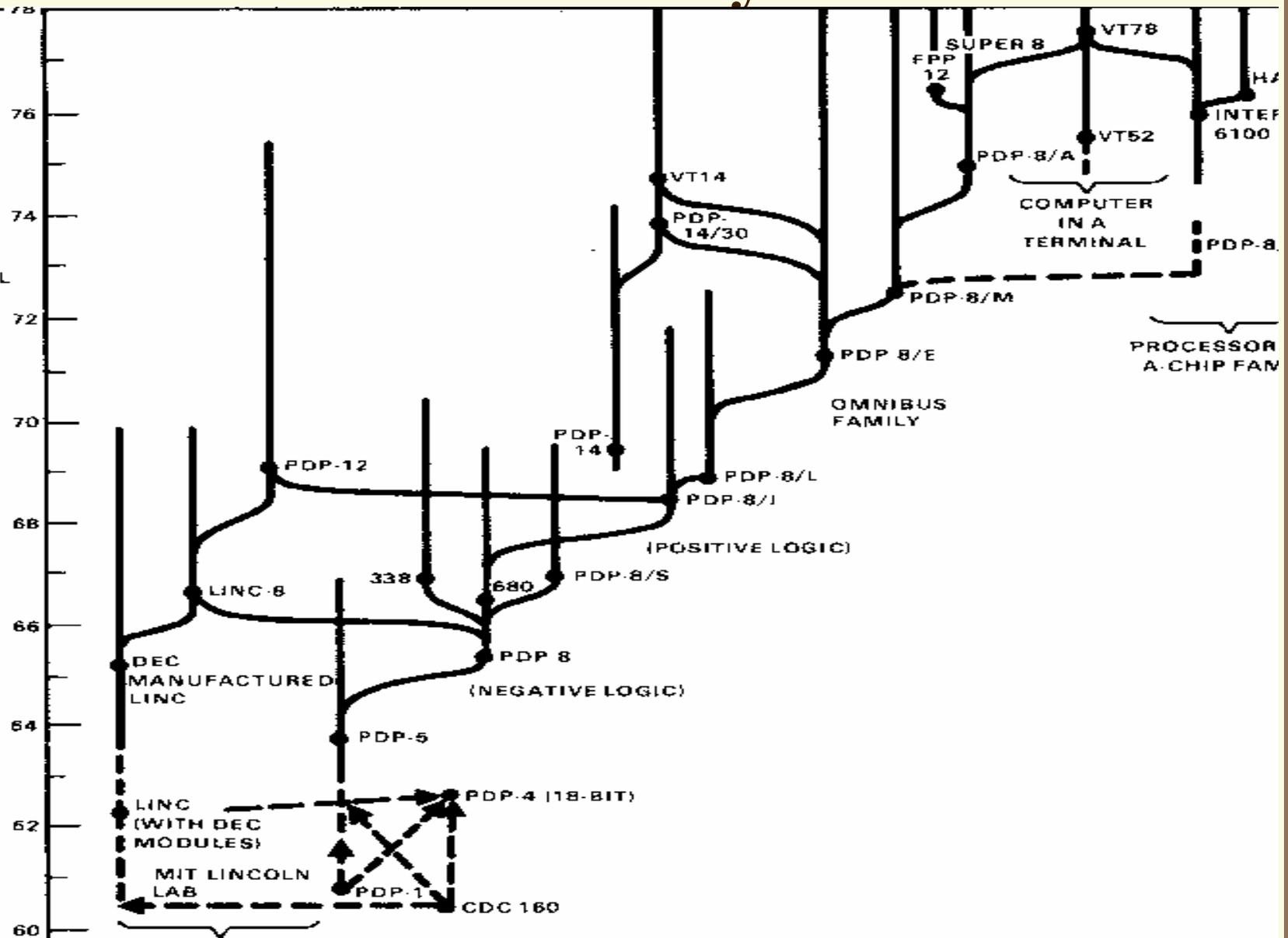
**Gbell as old man,
with LINC and PDP-8 c1965**



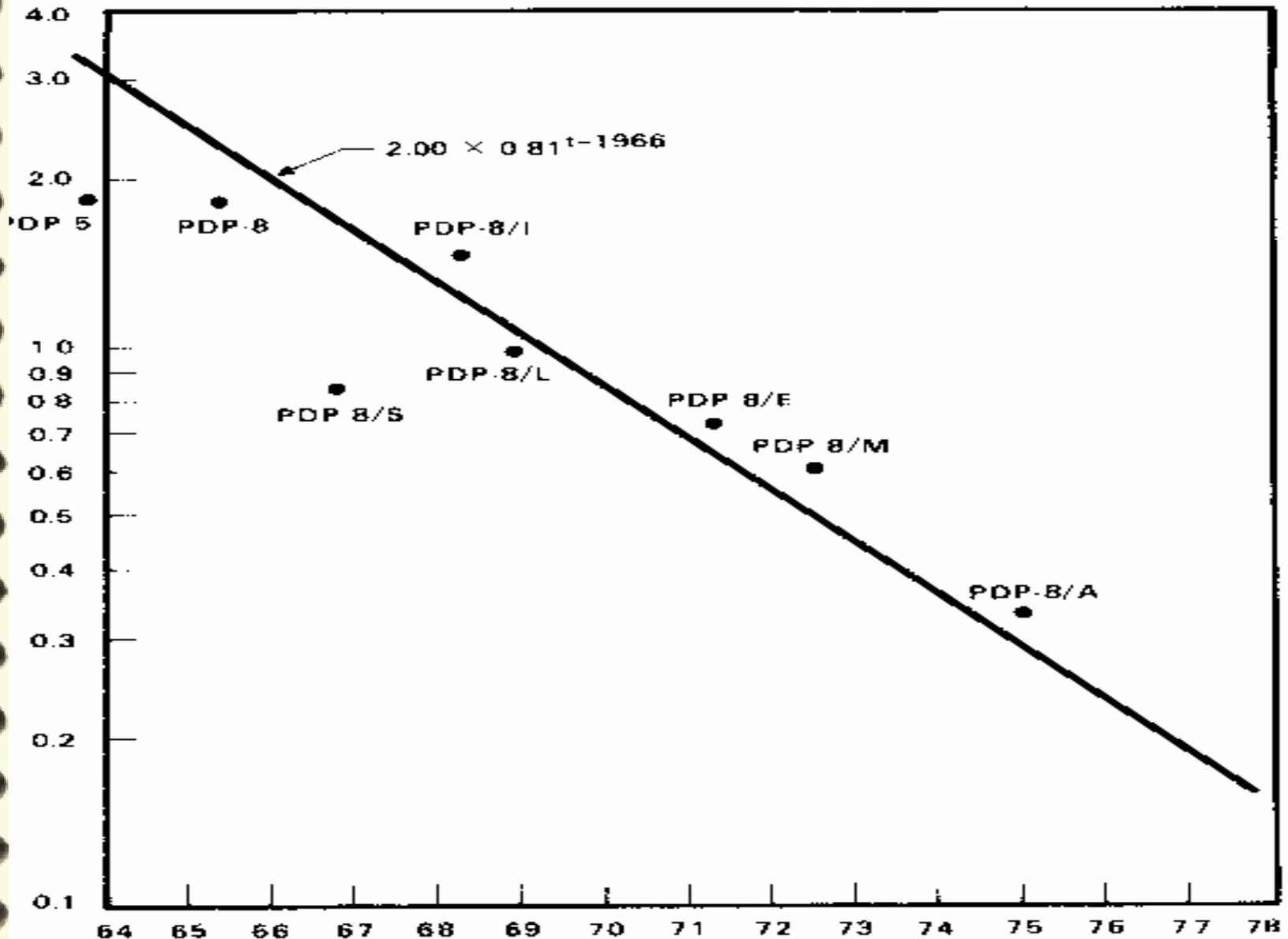
PDP-8/E

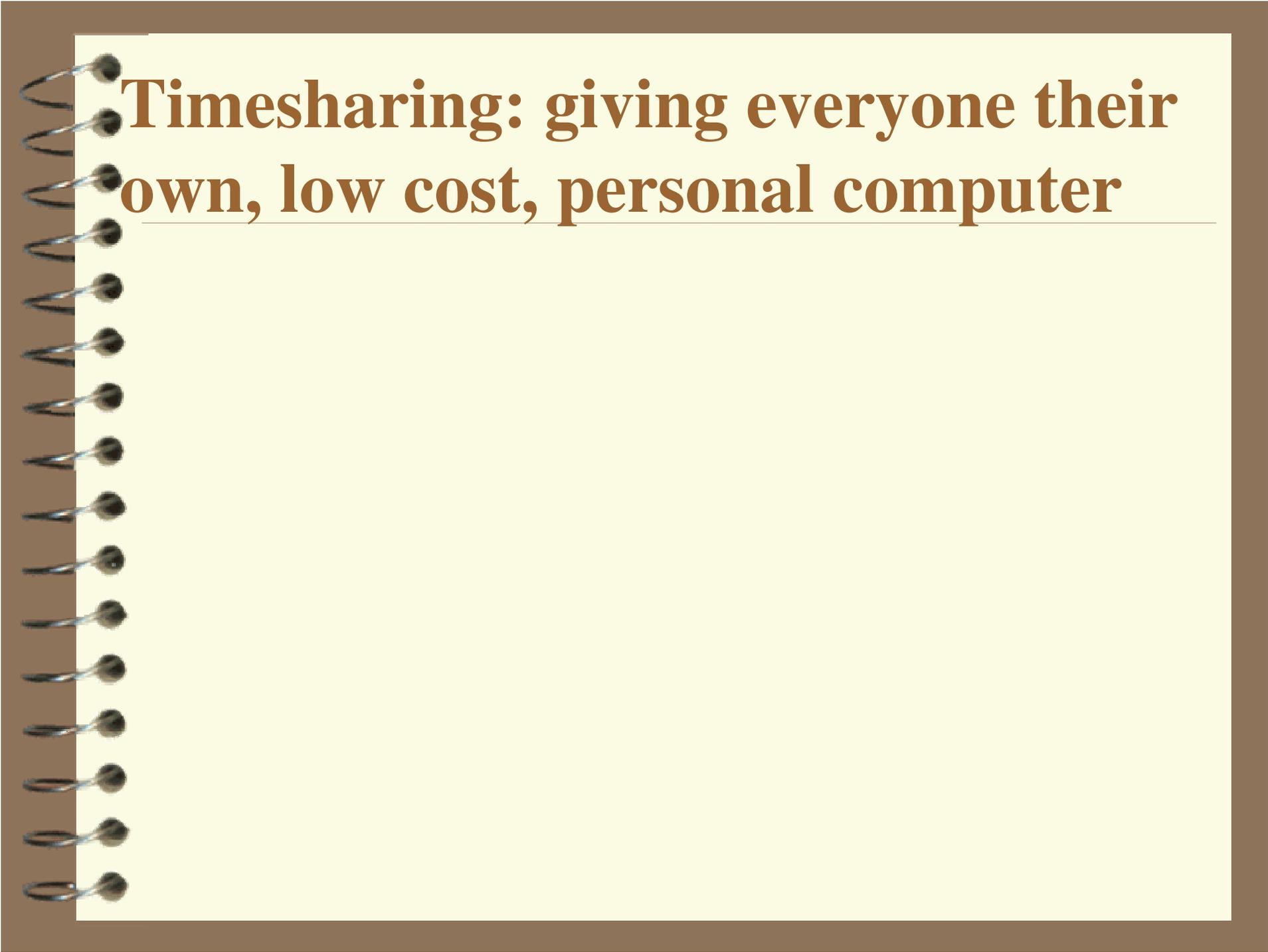


PDP-8 and Linc Family Tree



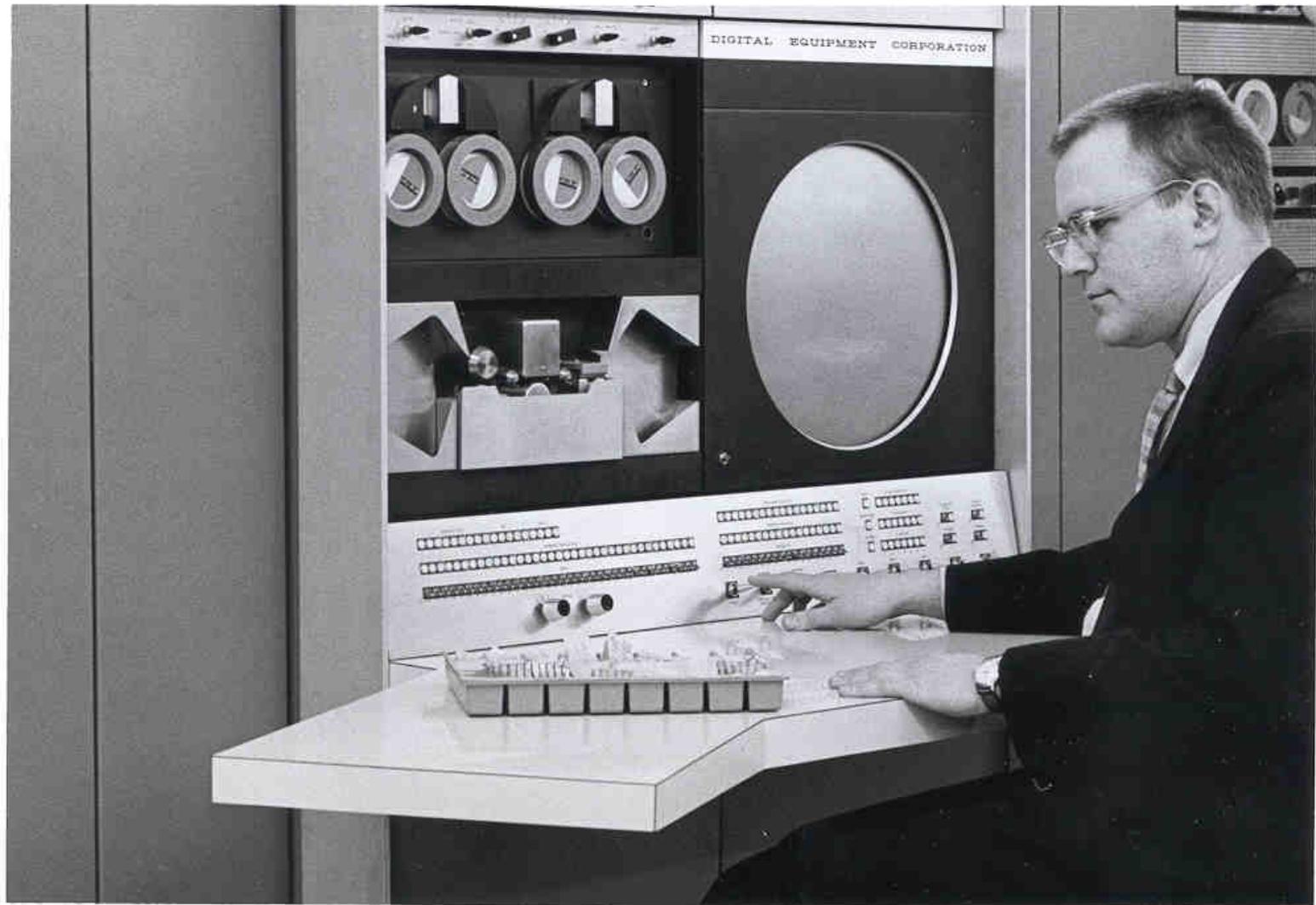
PDP-8 12 bit word price (t)



A graphic of a spiral-bound notebook with a brown cover and a cream-colored page. The spiral binding is on the left side. The text is written in a brown, serif font on the page.

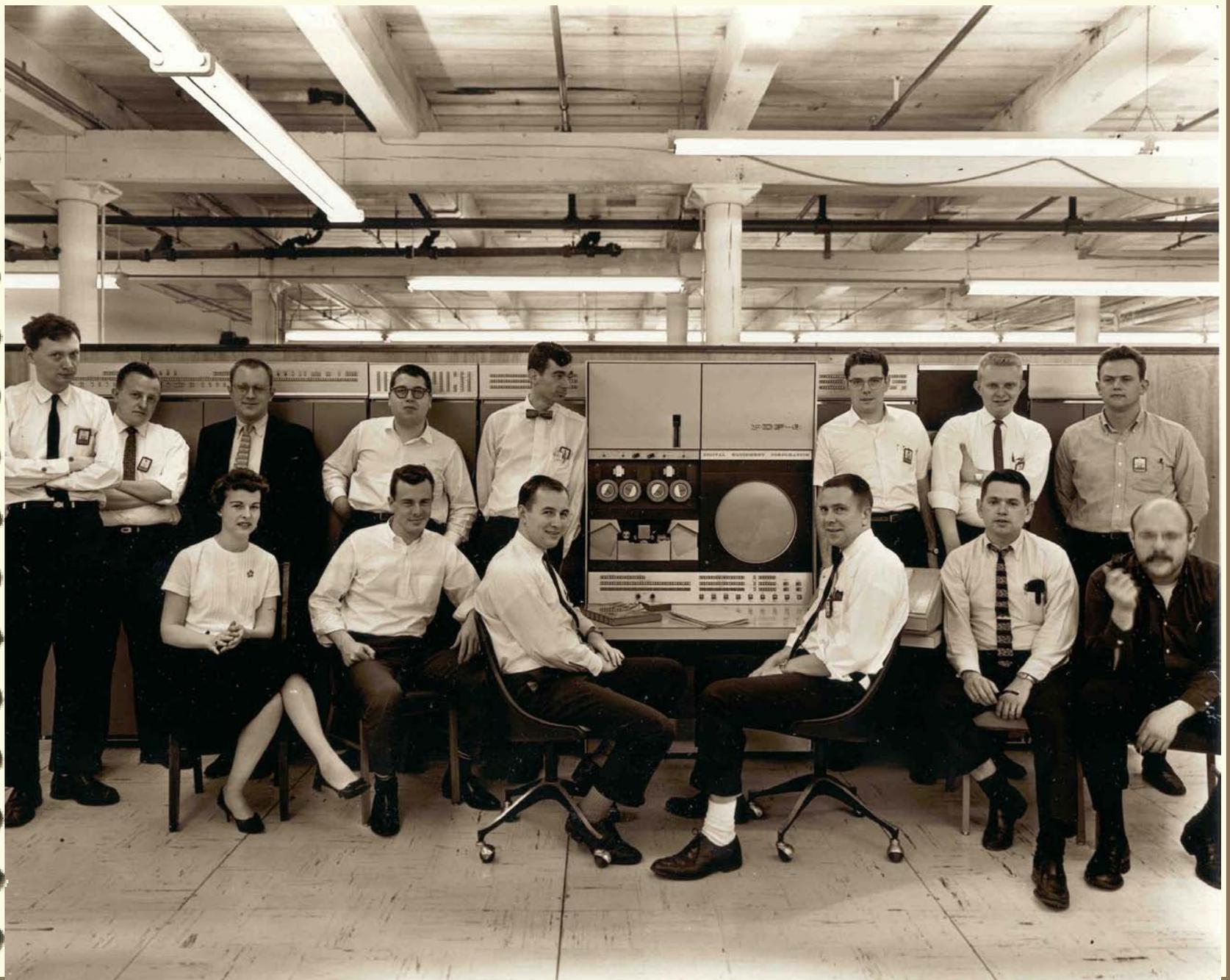
Timesharing: giving everyone their own, low cost, personal computer

PDP-6 with GB at the console

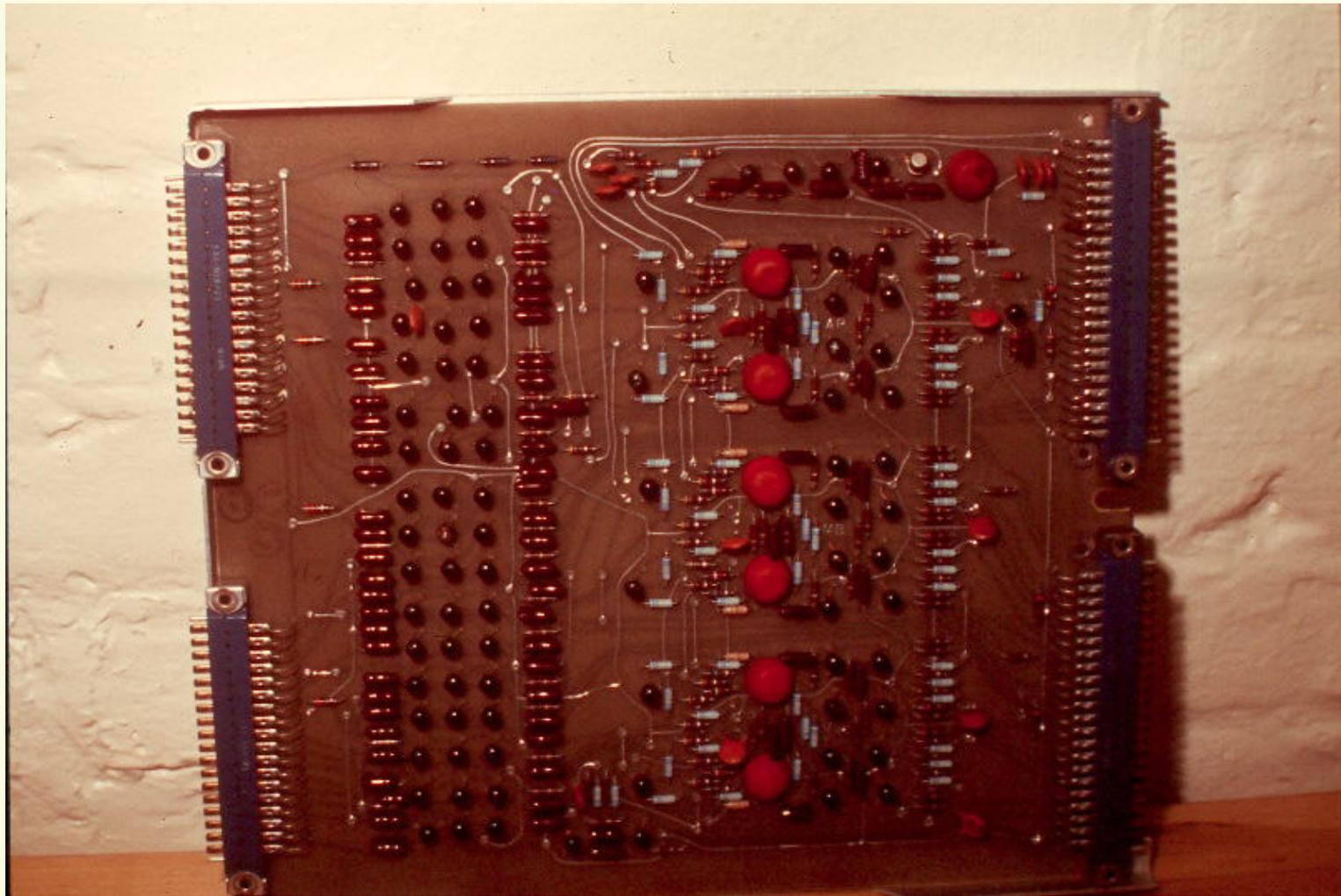


PDP-6 c1965 : First commercial time shared computer. Gbell & Alan Kotok



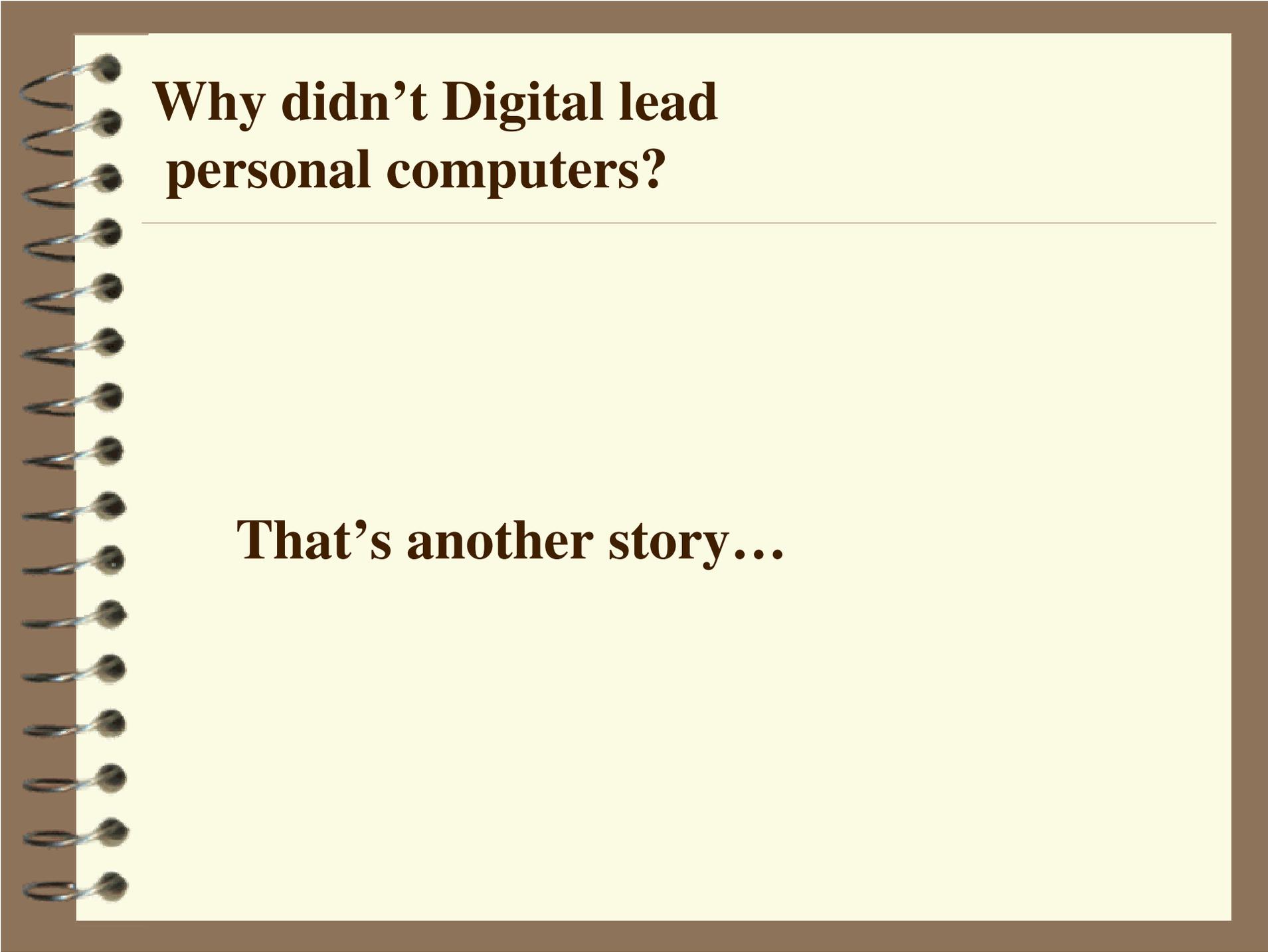


Gordon's Packaging Folly: double sided connectors for PDP-6



Minis and timesharing contributions

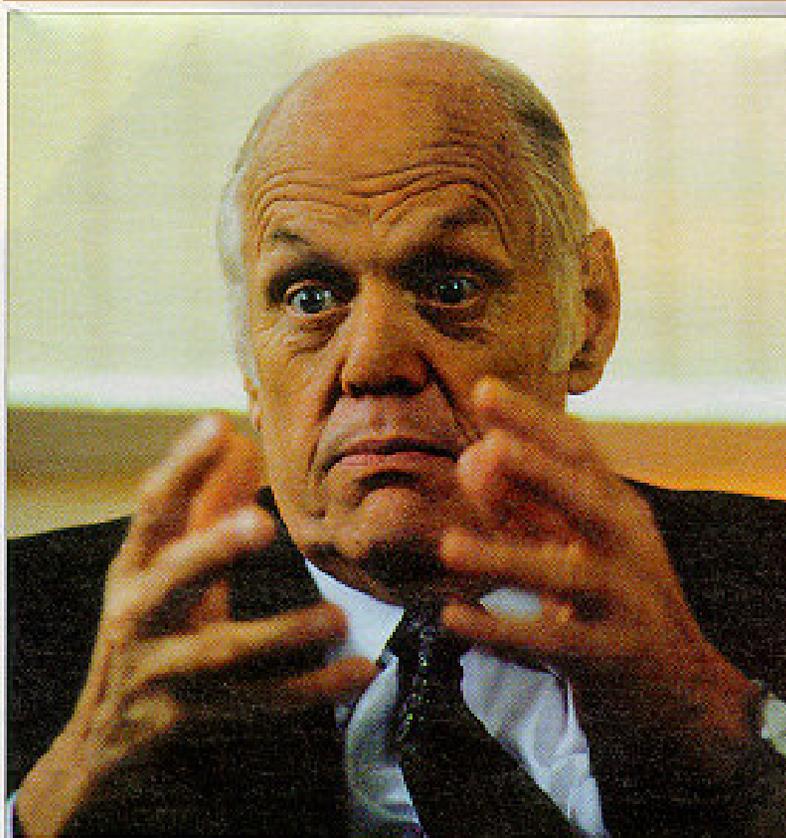
- **Editors, calculators, interactive debuggers, interpreters, including mail and chat from timesharing**
- **Minis established embedded computers, importance of I/O to interconnect anything**
- **SpaceWar demonstrated interactive graphics and settled lots of later law suits**
- **OEM Distribution and marketing model... Harlan Anderson, after Tecumseh**
- **SCO's all-in-one module and computer handbooks...**

A graphic of a spiral-bound notebook with a brown cover and a cream-colored page. The spiral binding is on the left side. The text is written in a bold, black, serif font.

**Why didn't Digital lead
personal computers?**

That's another story...

**There is no reason anyone
would want a computer in their
home.**



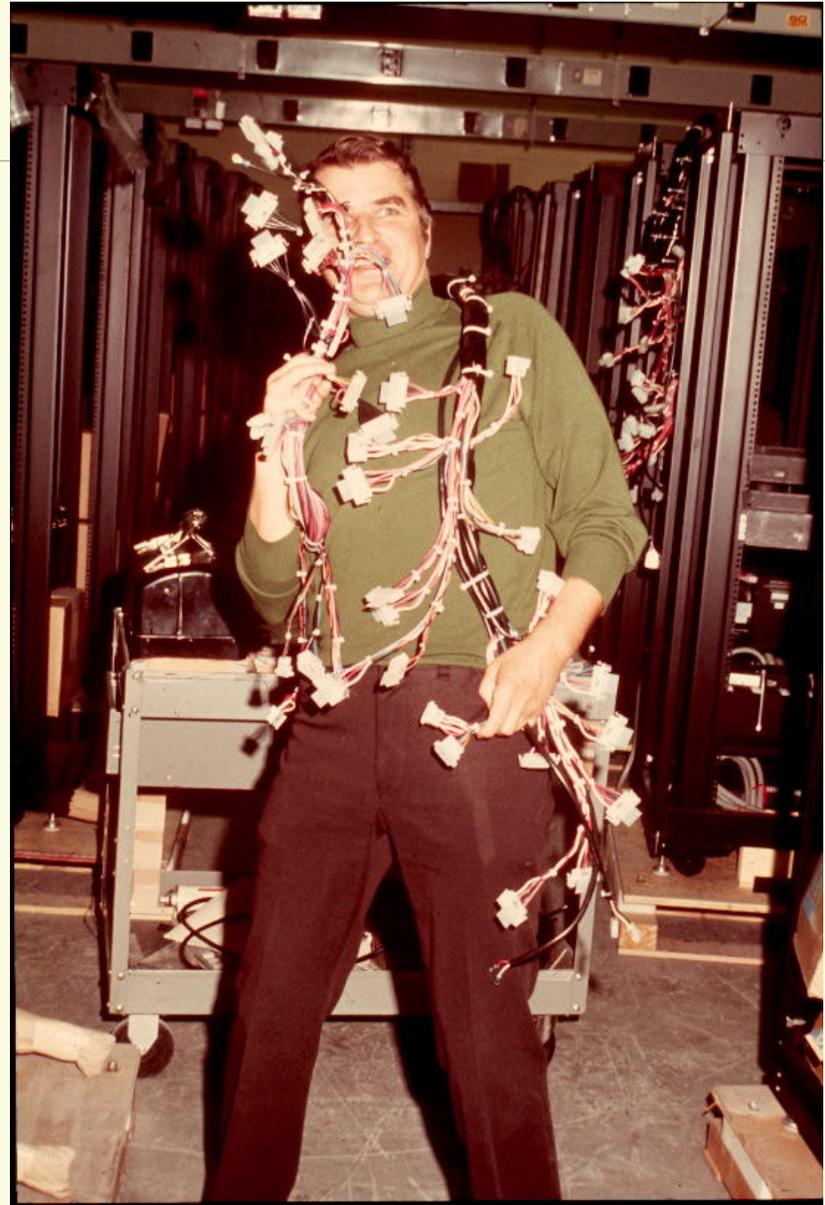
**Ken Olsen
President,
Chairman
and founder
of Digital,
1977**

**Equating
yourself
to the average
“user/buyer”**

**is risky . . . unless you're an
average user like me. G. Bell**



Jack Smith
head of
**Final Assembly
and Test Plant,
Westminster, MA
c1977**



Stories

- **Pdp 6 console with kho, harris hyman, dit morse, alan kotok, peter sampson,**