Early Days, ...

F. J. Corbato

1949 Whirlwind I operational

• 1956 Phil Morse started Computation Center

--with IBM 704: MIT one shift

~43 NE colleges one shift

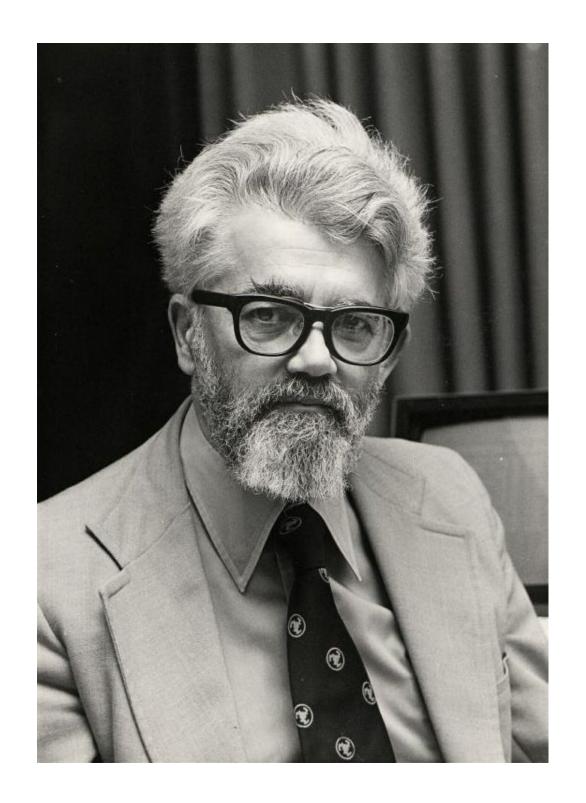
IBM one shift + does

maintenance

Computation Center Thread

- 1957 McCarthy moved from Dartmouth to MIT in EE and joined CC
 - with Minsky started Al group

 Jan. 1, 1959 wrote memo to Morse for Timesharing the IBM 709 – needed a few critical mods to hardware



Comp Ctr Thread (cont.)

- IBM agreeable to hardware mods
- Herb Teager, a new EE prof, to do the Operating System, attach 4 Flexowriter terminals
- McCarthy continued to argue for MIT to get a new computer with large amounts of memory
- Long Range Comp. Study Committee formed,
 Teager chair—15 from key parts of MIT

Long Range Comp. Study Comm.

- Many meetings, no consensus
- After a couple of months, Teager called a meeting, produced a finished report with conclusion to get an IBM Stretch, 137 pages
- Committee revolted, reformed w/o Teager, McCarthy, chair
- April 1961, new report, 47 pages, recommended visiting vendors for large central Time Sharing installation

Comp. Ctr. Thread (cont.)

- Teager efforts to do a T-S OS stalled
 - -- too ambitious, undermanned
- Summer 1961, Corbato decided to build a "hack" T-S system to demo T-S on IBM 709
 - -- used 4 Flexowriter terminals
 - -- mag.tape per terminal for swap storage
- First demo of CTSS Nov. 1961

Other Threads

- BBN with Lick, Fredkin, McCarthy (consult.)
- Jack Dennis and students with TX-0 and PDP-1
- Sputnik (1957) shock and ARPA start (1958)
- Spring (1961) McCarthy gave talk on Time
 Sharing as part of MIT 100th celebration
- Morse pursuaded NSF to get 32k memory bank add-on to 7090, IBM to install 7750 i/o controller for TTYs

Other Threads (cont.)

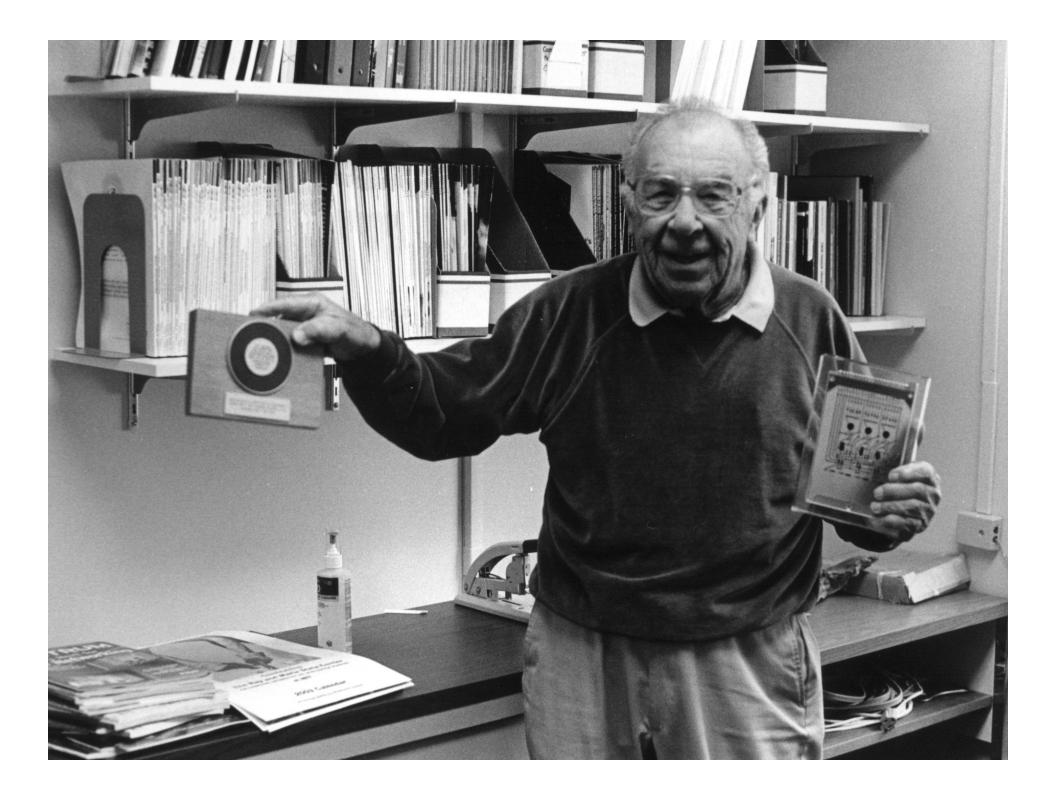
- Licklider- Man Computer Symbiosis paper (March 1962)
- McCarthy felt MIT stalling, went to Stanford (Fall 1962)
- Cuban Missile Crisis (Oct 1962)
- ARPA (Fubini, Ruina), start IPTO with Licklider as first head (Sept 1962)



Project MAC Beginning

- Lick with \$10M (\$78M today) came to MIT to sound out interest in Fall 1962
- Meeting a disaster of bickering!
- Fano stepped up to start an MIT response
- Fano chose name, wrote proposal in a week, got MIT approval quickly, needed space, senior staff, etc.
- Project MAC started 1/1/1963 in Tech Sq.

- Top two floors of Tech Square
- Fano with Oliver Selfridge, Dick Mills, Dottie
 Scanlon were administration
- Summer Study planned (6 weeks)
- About 100 attendees from U.S. and Europe
- With 2nd 7090 on order, used Comp Center 7090 for CTSS



Early Mac

- Bell Labs joins with Project MAC
- Mac recruits key people from Summer Study— Glaser, Weizenbaum
- Internal meetings over future system
- IBM announces 360 series, Apr. 7, 1964
- Visits to potential vendors
- Mac/Bell Labs choose GE for next machine
- 6 papers presented at FJCC Nov. 1965

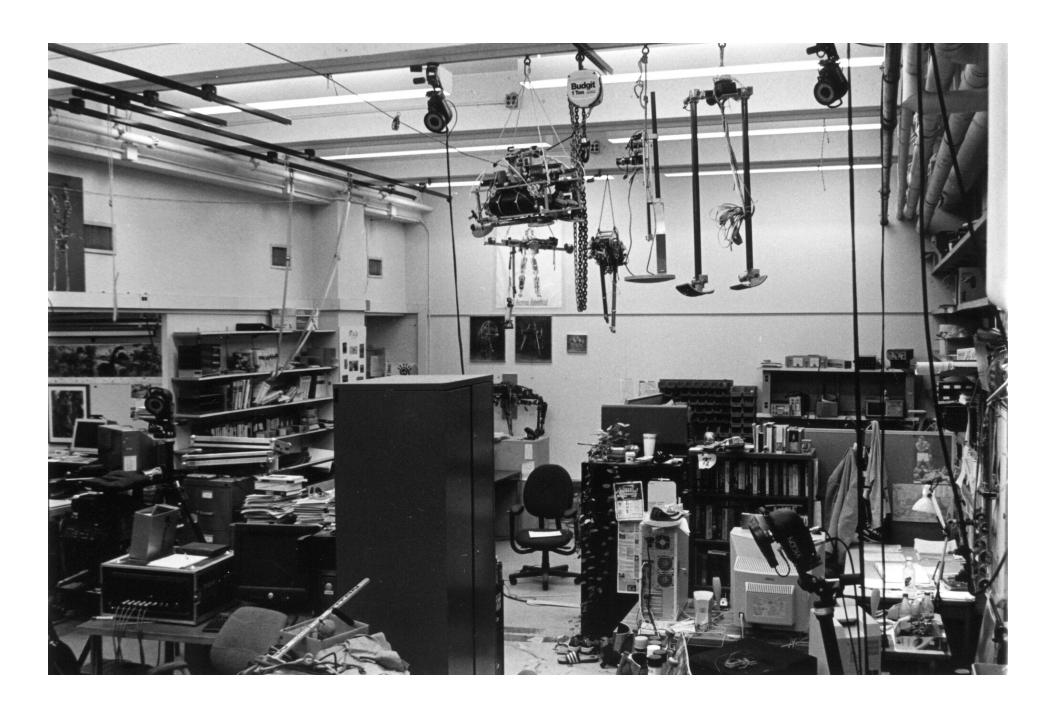
Other Major Contributions

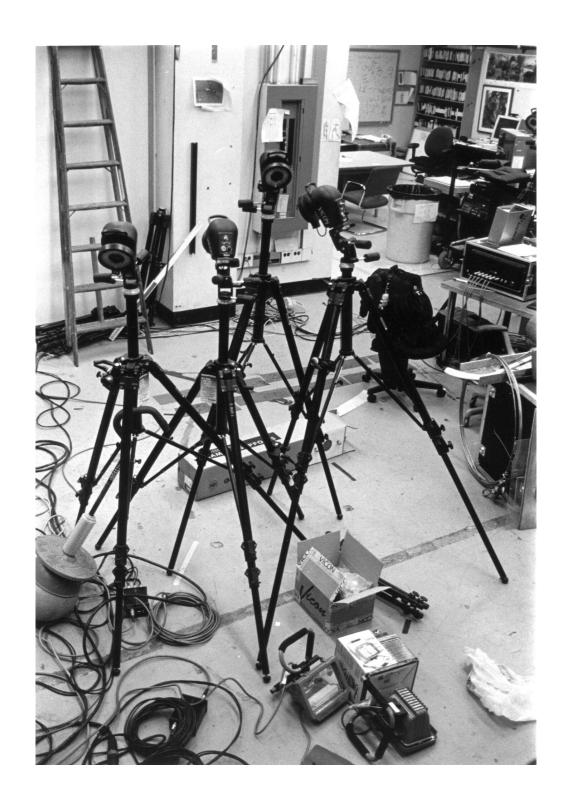
- About 1968, A review committee was formed to see if the Multics effort should continue!
- Fortunately Ed Fredkin was on the committee and persuasively argued against the death knell.

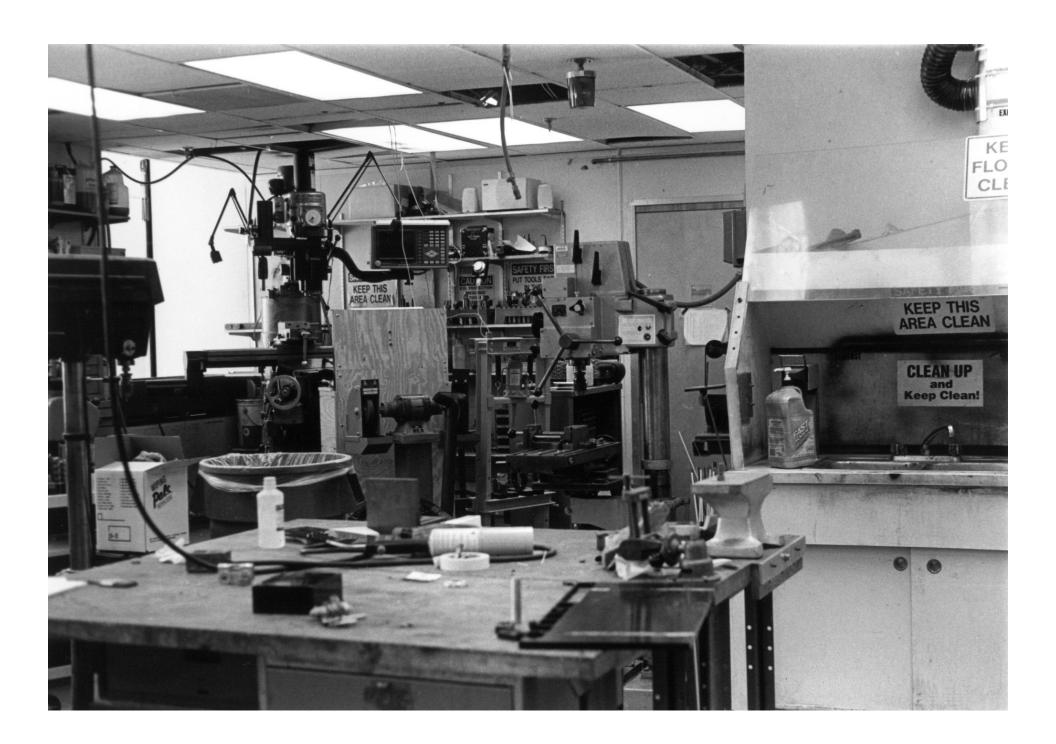
 With the advent of the Web in 1993, Tom Van Vleck created the site "multicians.org", a major resource about the Multics effort.











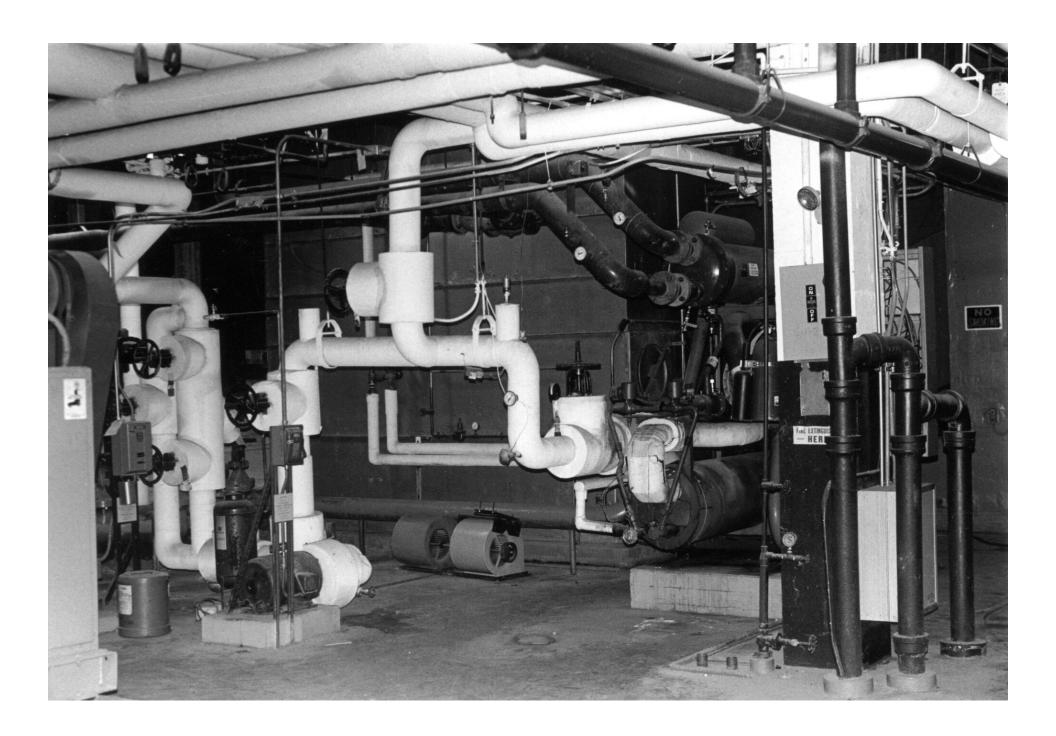














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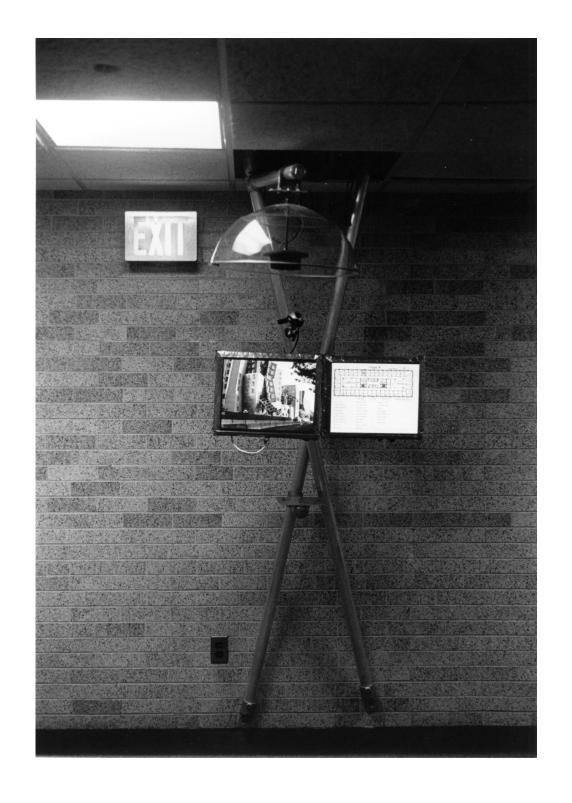
HUMANOIDS 2001

First IEEE-RAS International Conference Thumas pid I

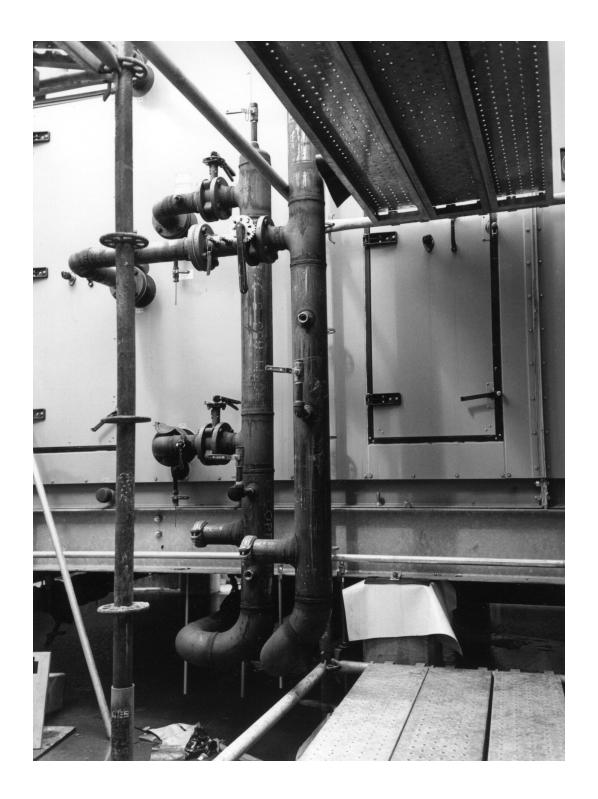
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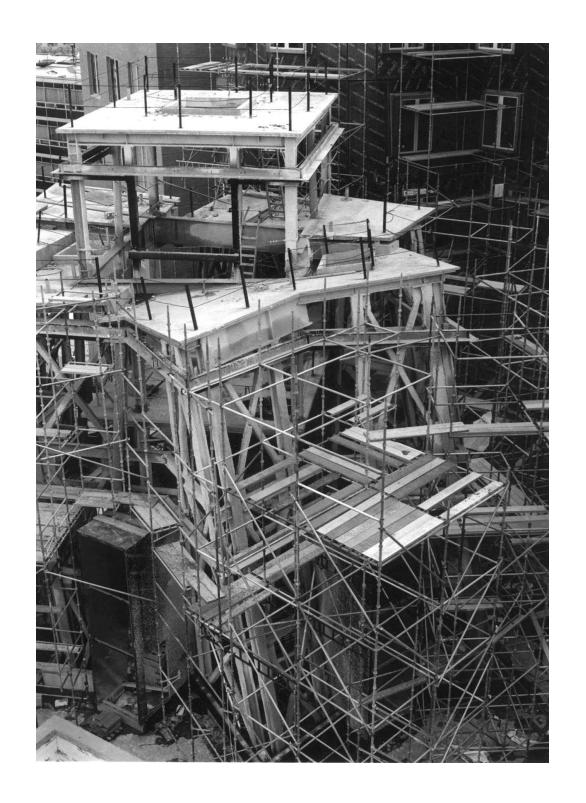
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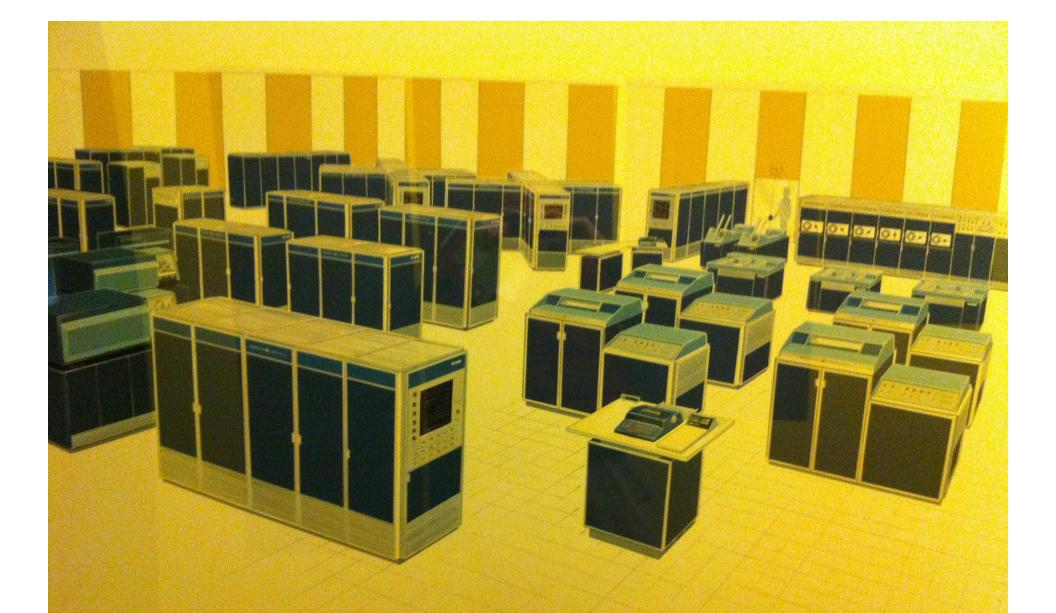












GE-645 SYSTEM

For More info:

Google: "Fano 1985 Lecture" (6 min. intro + 91 min.)

Google: "YouTube 1963 TimeSharing" (27 min. TV show)

Google: "CTSS Walden Van Vleck"