About the PDP 8

- Memory: 12-bit words (slots)
  - only 4096 words total!
  - each memory access takes 1.2 $\mu$sec
- Accumulator is 12 bits long
  - this is the only register available to store data
- Instruction register (IR) is 3 bits long
- Identifiers are $\leq$ 6 characters
- PDP8 was one of the first commercial computers that was affordable for small organizations (like Carleton)

Architecture of the PDP8

*0200, TLOOP2, START, ISZ TIMER2
CLA
DCA CTR
LOOP, ISZ CTR
NOP
TAD BIGNUM
DCA TIMER1
; continued in next column

TIMER1, 0000
TLOOP1, TIMER2, 0000
TAD BIGNUM
DCA TIMER2
TAD CTR
BIGNUM, 7000

*0200, TLOOP2, START, ISZ TIMER2
CLA
DCA CTR
LOOP, ISZ CTR
NOP
TAD BIGNUM
DCA TIMER1
; continued in next column