



8080 Computer Specifications

Intel 8080 Microprocessor @ 2.2MHz

64KB Static RAM (2x Hitachi HM62256LB-15)

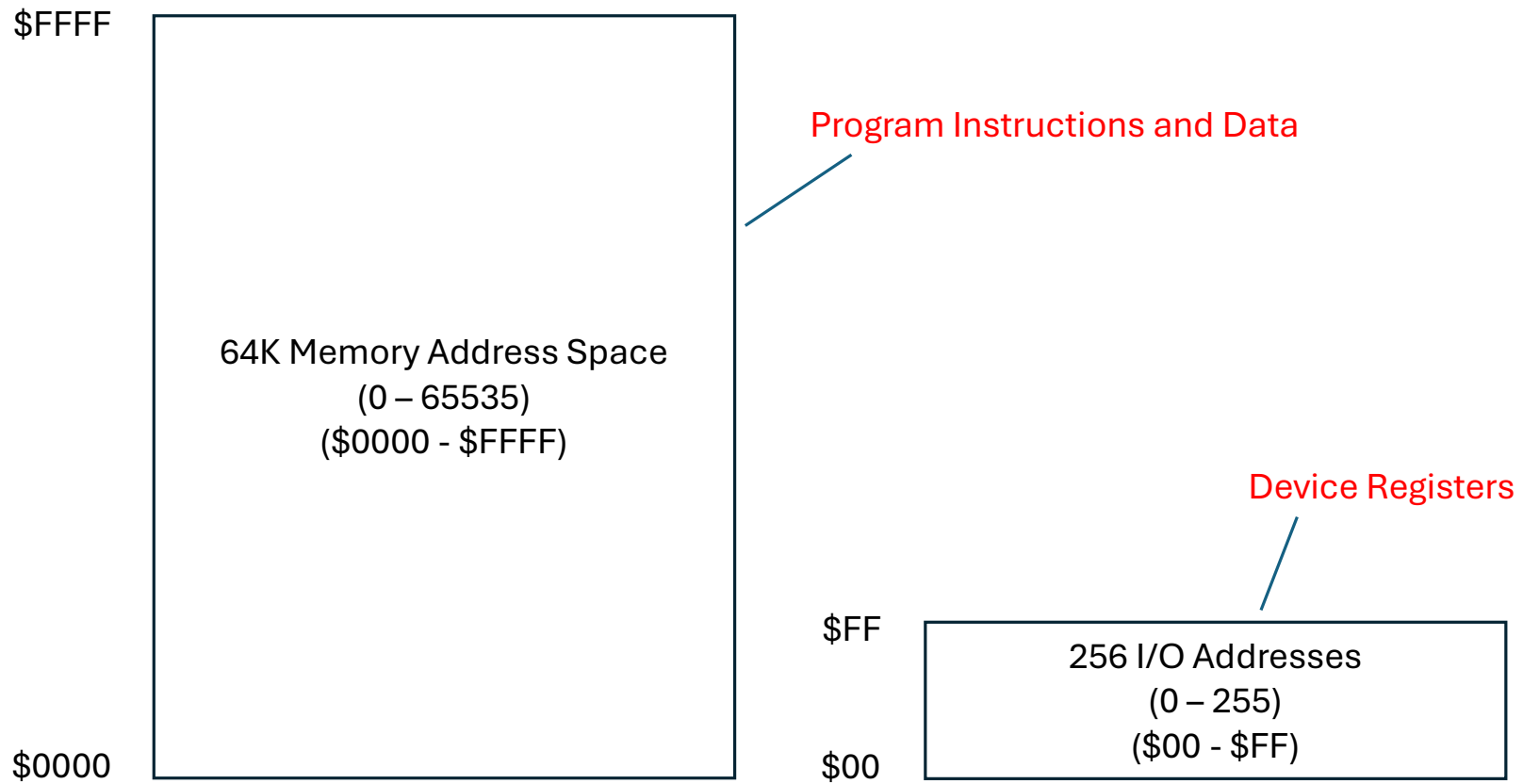
32KB Flash ROM (MicroChip AT28C256-15)

128MB ATA (IDE) Compact Flash Drive

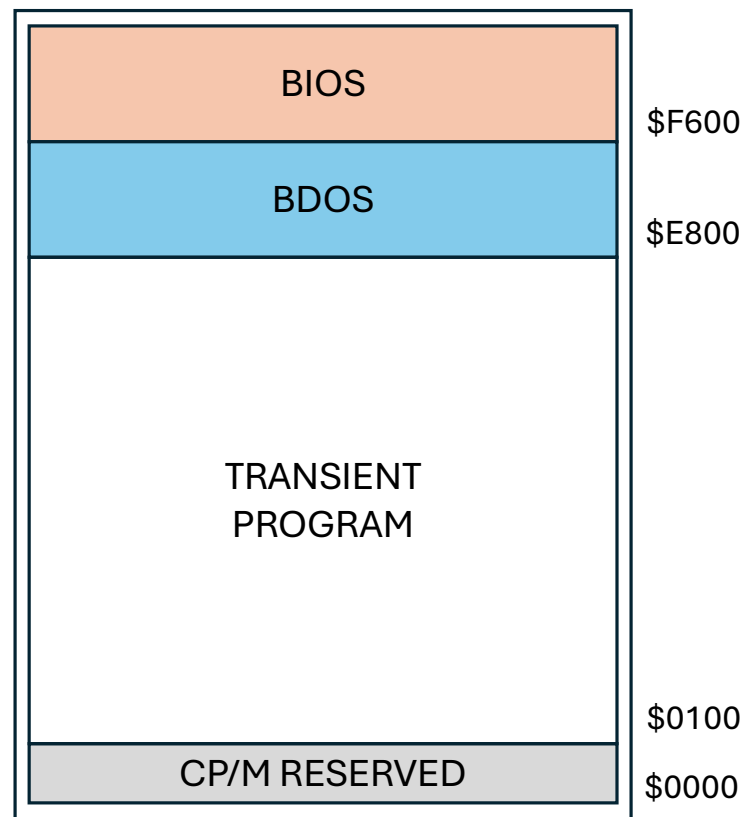
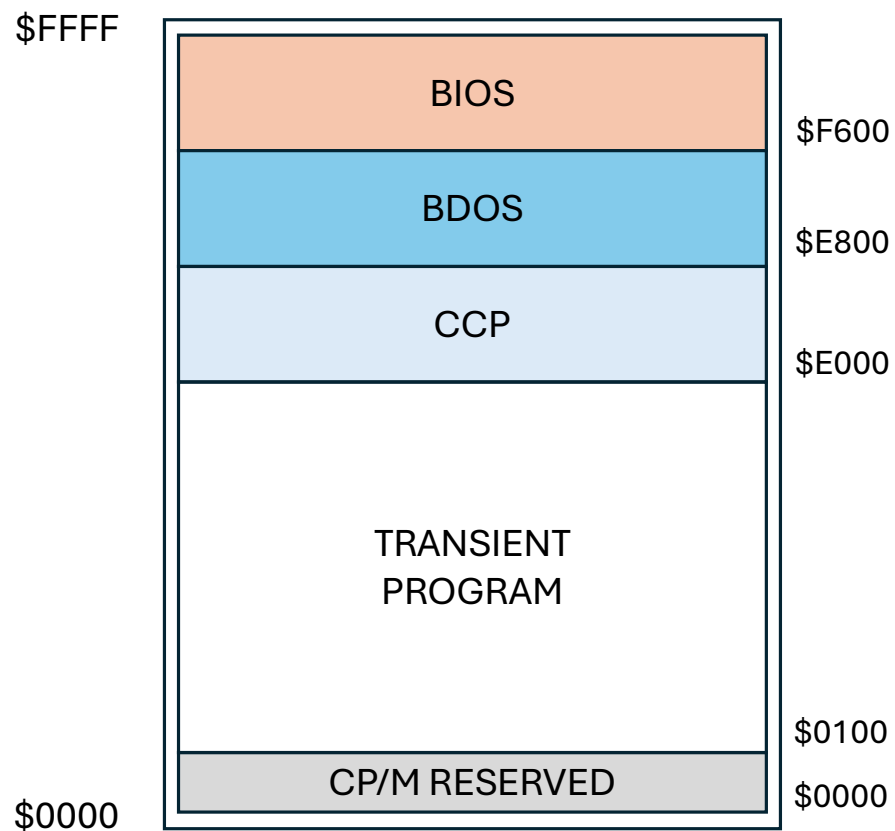
Intel 8250 Serial Port with TTL and RS-232 interface

60W Power Supply (Mean Well 709-PT65A)

8080 Memory and I/O



CP/M Memory Map



CP/M BIOS

General Notes on CP/M BIOS Development/Testing

1. Interrupts and hardware DMA are not required
2. Start with the skeletal BIOS shown in the Alteration Guide
3. Create the cold boot and warm boot routines first and test those (initializes hardware devices)
4. Create and test Console status, read, and write routines
5. Create and test disk read and write routines
6. Bring in the deblocking algorithms and retest disk read/write

When completed, the BIOS can be loaded into memory and used for the following additional programs:

CP/M Disk Format

CP/M OS Install

CP/M OS Load

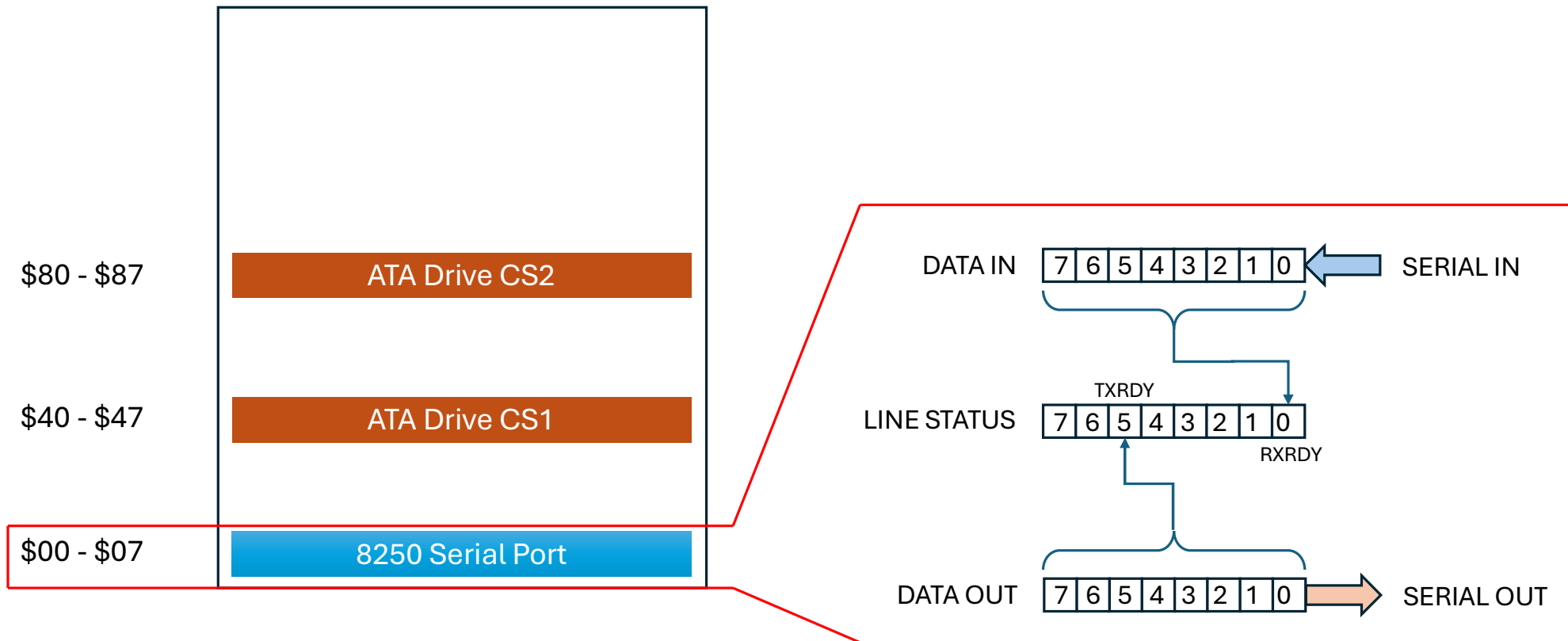
Monitor Boot Loader (simplified BIOS)

On-disk Boot Loader (simplified BIOS)

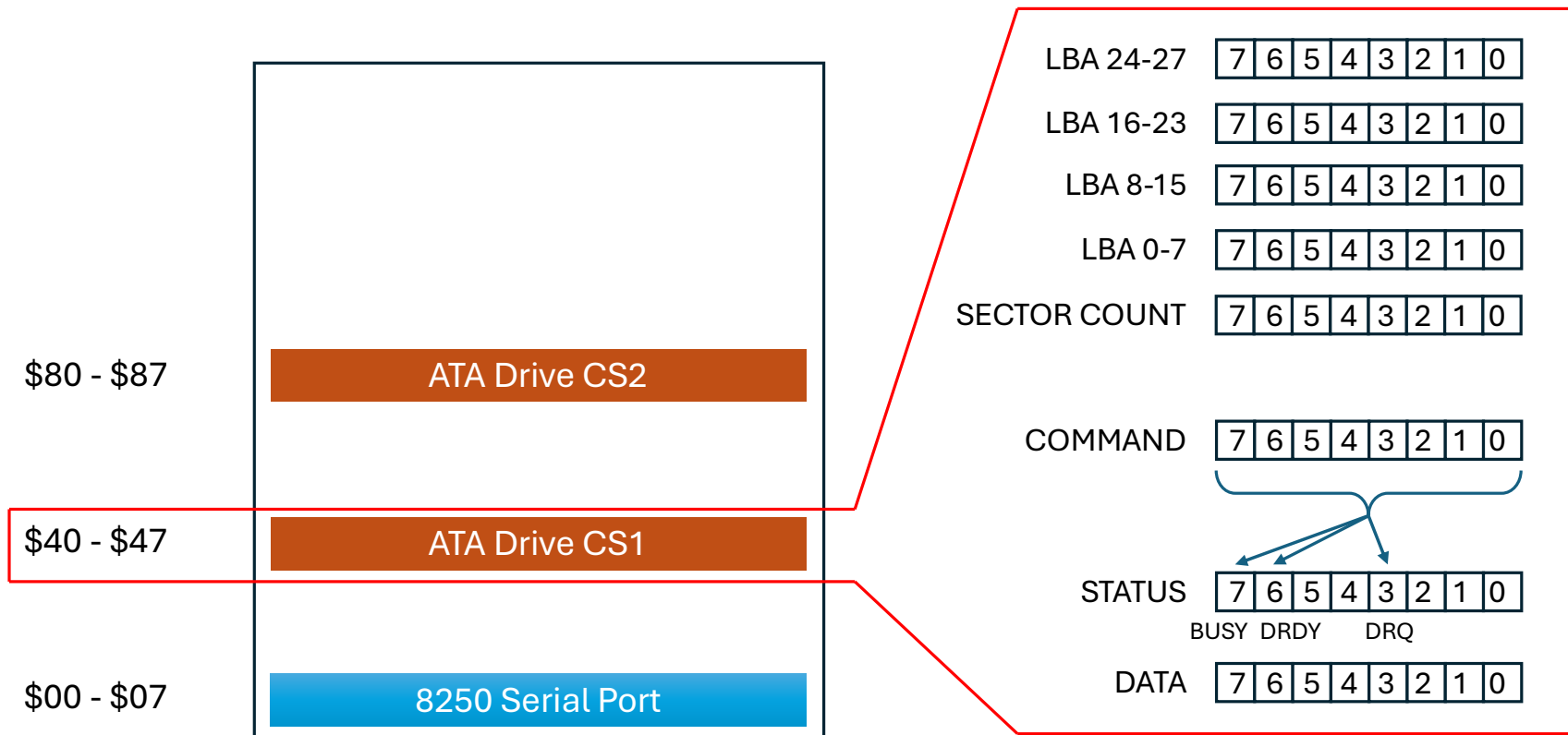
BIOS Functions

boot	CP/M Cold Start Routine (Power up or hardware reset)
wboot	CP/M Warm Start (Reloads CP/M after program exit)
const	Serial console status (check for character in receive register)
conin	Console device character read
conout	Console device character write
list	List device character write (not used on my 8080)
punch	Punch device character out (not used on my 8080)
reader	Reader device character in (not used on my 8080)
home	Move drive head to track 0 (not used on my 8080)
seldsk	Select current disk
settrk	Select track
setsec	Select sector
setdma	Set DMA address
read	Read sector from disk
write	Write sector to disk
listst	List device status (not used on my 8080)
sectran	Get sector translation vector (not used on my 8080)

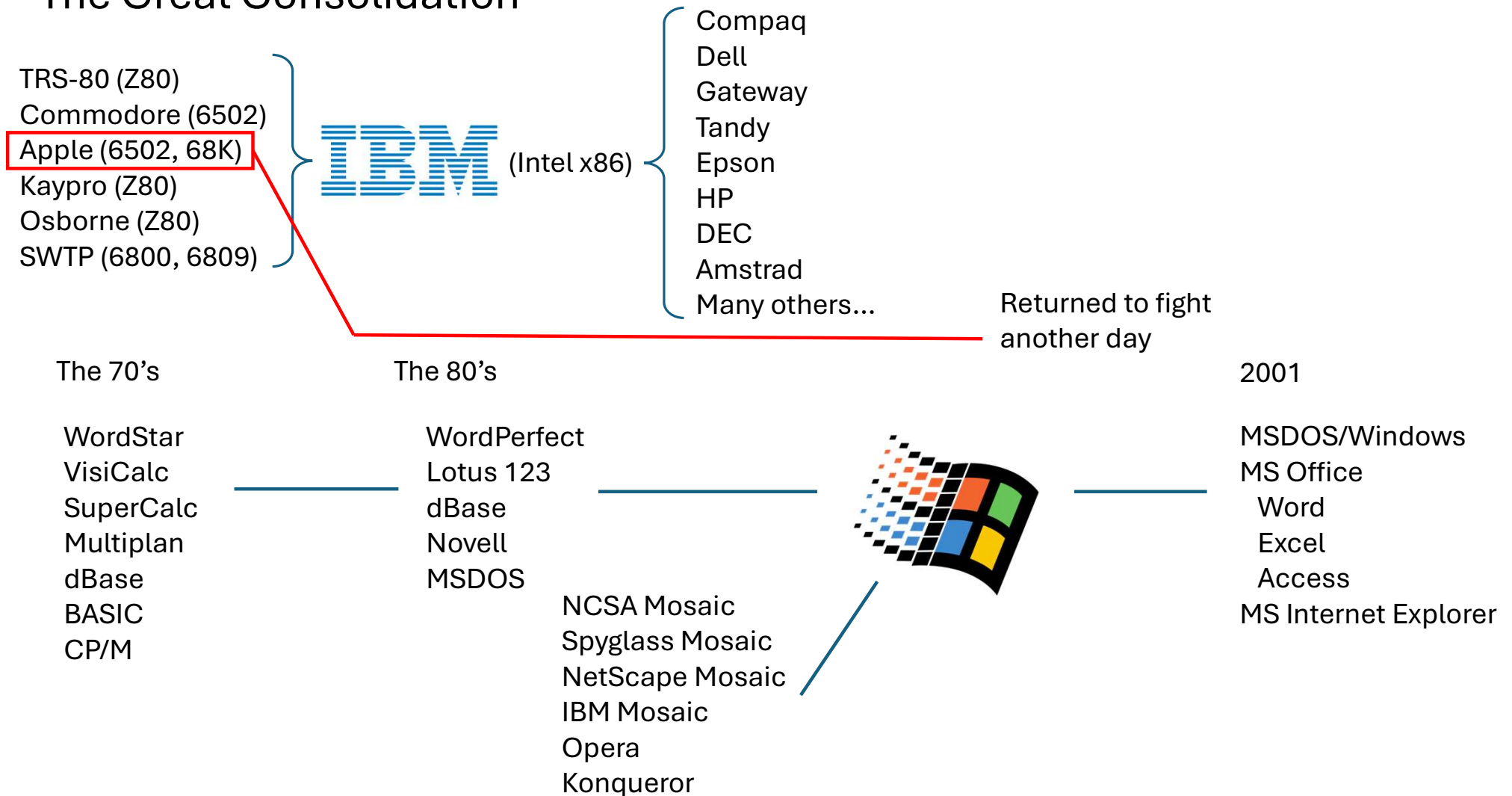
I/O Device Map

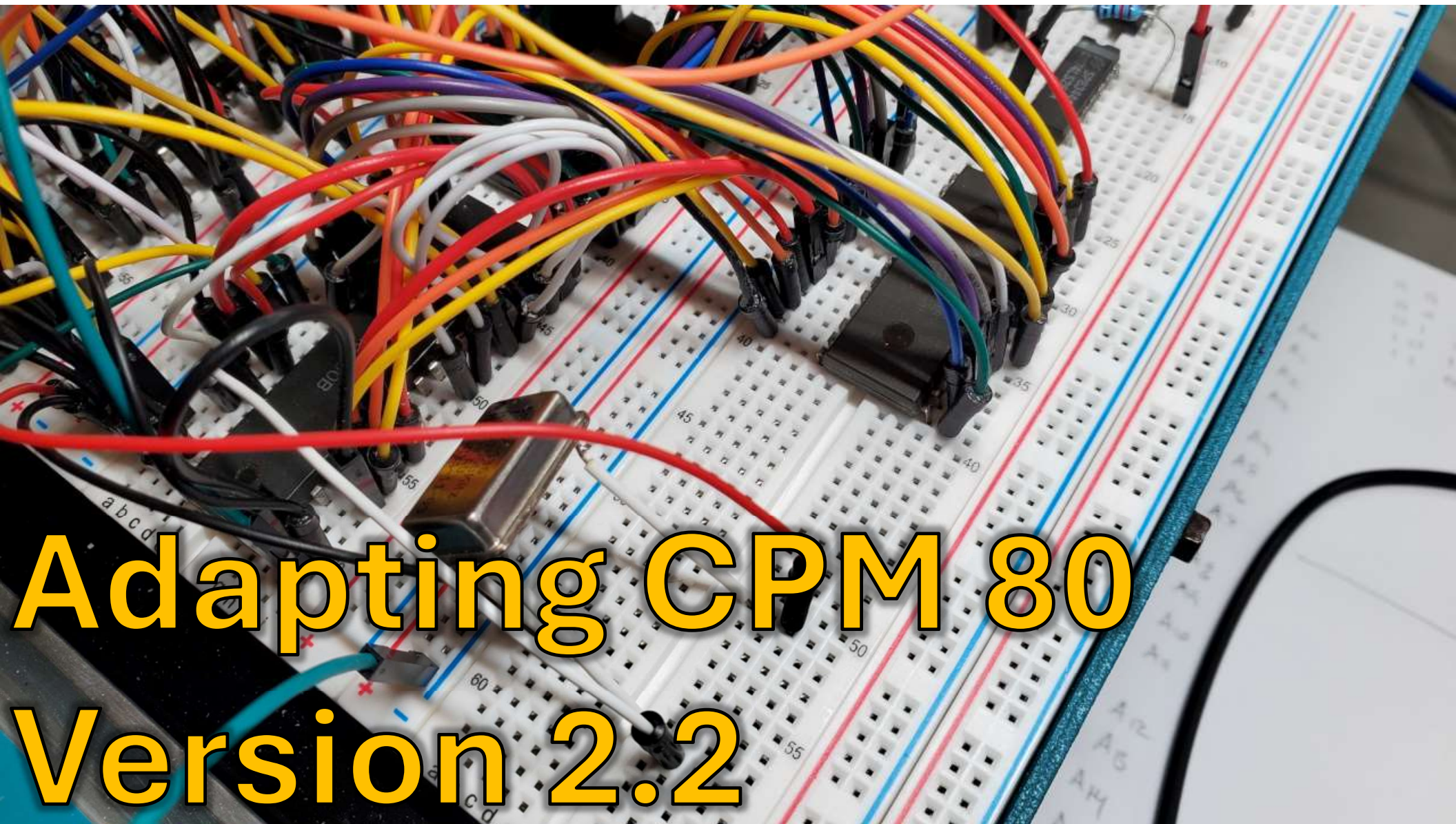


I/O Device Map



The Great Consolidation





Adapting CPM 80 Version 2.2

Special Thanks To:

Mike Douglas

www.deramp.com

John Hartman

www.noicedebugger.com

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www.cpuville.com

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www.retroarchive.org

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www.kevinboone.me

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github.com/udo-munk?tab=repositories

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cini.classiccmp.org

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www.nesssoftware.com/home/mwc

Everybody at:

www.cpmarchives.classiccmp.org

www.intel.com