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# Tony PC

This section documents the list of desktop computers I have built and used.

My usage is basically the equivalent of the PC of Theseus, where parts have been swapped in and out.

## Tony PC 1.0

- Built: March 2014
- CPU: Intel Core i3 4130
- M/B: Asus Z87-Plus
- RAM: 2x4 GB Corsair Vengeance Pro DDR3 1600MT/s
- HDD: 500GB WD Caviar Blue 7200RPM HDD
- ODD: TSST DVD Writer
- PSU: Corsair CX430 430W 80+ Bronze
  - Non-modular
- CASE: Corsair Carbide 200R

- Designed to at least have some upgrade room (see Intel 5th gen )
- Alternative was Bulldozer.
- No GPU. No SSD.
- Yes, Z87 board for a non-unlocked i3 (only Z boards allowed overclocking, and the original plan was for a 4770k).

## Tony PC 1.1

- Added a used Gigabyte GTX 660 (2 GB) bought from Kijiji
  - Uses 1x 6pin
- At the time, the Nvidia 900 series and AMD 290x was just coming out, so these were dropping in price.

## Tony PC 1.2

- Added a 500 GB Samsung 860 Evo SATA SSD (new)
- Cost over \$100 at the time. (laughs in \$80 2TB SSD now)

## Tony PC 1.3

- Upgraded 2018, Cost ~\$100
- Added 2x8 GB Kingston Fury (new)
  - 1866 MT/s, running 1600 to match.
  - 4/4 DIMM used.

## Tony PC 1.4

- Upgraded 2018. Cost over \$200 iirc.
- Replaced the Core i3 4130 with a Core i7 4770k (used)
- Bought Cooler Master Hyper 212 Evo
  - Walked 5 km with it in my hand from Canada Computers on the side of the road on the way back from work.

## Tony PC 1.5

- Upgraded 2020. Cost: \$200 (used from Kijiji)
- Replaced the Gigabyte GTX 660 for an MSI Armor RX 480.
  - Uses 1x8 pin (max of CX 430)
  - Also bought on the way back from work at a Tim Hortons.
- Seriously concerned me about overloading PSU with i7 and GPU, 12v rail ran at 11.9V

## Tony PC 1.99

- Final resting spot of PC 1.x
- Case: Cooler Master N400
- GPU: Downgraded to GTX 660
- HDD: Downgraded to WD Blue 500GB 7200RPM
- HDD2: WD Blue 5400RPM
  - Shucked from old Mybook
  - Rebadged WD green (but CMR)
- 4770k/Z87/24GB RAM as core platform
- Remaining parts moved to TonyPC 2.0

## Tony PC 2.0

- Built: Fall 2020
- CPU: 2x Intel Xeon E5 2650 v2
  - 8 cores at 2.6 GHz
- MB: Supermicro X9DRL-iF
  - Lots of PCIe and PCI
  - 4 DIMM per CPU
  - 8 SATA ports
- RAM: 4x8GB Samsung DDR3 1600MT/s ECC
- SSD: Samsung 860 Evo 500GB SATA (carried over from PC 1.5)
- HDD: Seagate Barracuda Pro 10TB
  - Shucked
  - Helium filled 7200RPM
- PSU: Antec Earthwatt Gold 750W
  - 80+ Gold

- Semi modular
- Chosen for being on sale and ok.
- 2x 8Pin CPU.
- Case: Corsair Carbide 200R (from PC 1.x)
  - Why not the N400? The EATX motherboard did not fit.
  - Had to rip out half the standoffs to get the server board in there
- Coolers: 2x Cooler Master Hyper 212 EVO
  - Board came with passive coolers.
  - Might have been fine, but I went overkill.
  - Turns out Xeons are efficient. Max temp < 60C
- PCI slot: Creative Soundblaster Live
  - From eBay ~\$20
  - Needed audio since server board has none
  - Wanted something PCI to use up that unused PCI slot
- PCIe slot: Inateck USB 3.0
  - From Amazon, ~\$30
  - Chosen for Linux support and not having reviews of cooking peripherals
  - USB 3.0 does not work, has run in 2.0 only on Linux for years.
  - Purchased after I cooked 2 of the 4 USB ports on the motherboard due to overcurrent
  - Also needed for front panel USB
- PCIe slot: Fenwi AX200
  - Has linux drivers. needed wifi.

## Tony PC 2.1

- HDD1: 10TB Barracuda Pro (shucked)
- HDD2: 14TB WD Red (from WD)
  - Was DOA.
  - Had to get WD to replace it.
- HDD3: 8TB Toshiba X300
- ODD: LG Blu Ray Burner
  - Samsung ODD died. Should have repurposed the lasers in hindsight - oh well.
- SSD1: Samsung 870 Evo SATA
  - The 860 Evo died.
  - Retailer said ask Samsung
  - Samsung said ask retailer.
  - Retailer sent it in. Could not repair. Gave 870 evo instead.

## Tony PC 2.2

- GPU: AMD RX 6700XT
  - Indirectly sponsored by Felipe
  - Old RX 480 moved to Tony PC 1.99, only to be brought back.
- SSD1: Samsung 250GB OEM NVMe
  - Motherboard can not boot from PCIe.
  - Supermicro has some X9 boards with update that do. not this.

- Move GRUB onto a thumb drive, stick into internal USB port.
- PC boots to USB with GRUB, which starts Linux, which mounts rootfs on the NVMe, since Linux has NVMe drivers.
- Swapped HDD with NAS
  - WD Red 14TB moved to NAS (as WD Red is meant for)
  - Seagate Barracuda Pro 10 TB (a second one - also shucked) moved from NAS to PC

## Tony PC 2.99

- Final resting spot of PC 2.x
- Now used for Proxmox
  - Turns out lots of CPU cores and server motherboard are well suited for - server applications.
- Xeon 2650v2 / X9DRL-IF / 32 GB ECC.
- GPU: AMD RX 480 (good Linux support - used for gaming VM and video encoding)
- SSD1: Samsung 870 Evo 500GB (from PC 2.1)
- SSD2: Kingston A400 480GB (from NAS)
- HDD1: WD Red Plus 14TB (from NAS)
- HDD2: Toshiba X300 (from PC 2.1)
- HDD3: WD Blue 4TB SMR (from NAS)
- Corsair 200R

## Tony PC 3.0

Newly getting build after move to USA.

- CPU: AMD Ryzen 7900X (used)
- M/B: MSI X670-P Wifi
  - Bad board, but at the same cost as a B650, may as well have the extra M.2
  - We shall see...
- RAM: 2x32GB DDR5 5600 (used)
- Cooler: Thermalright Peerless Assassin 120
- SSD1: 500GB WD SN750, PCIe 3x4 (from Laptop)
- SSD2: 2TB Micro 1100 (used)
- HDD1: Seagate Barracuda Pro 10TB (shucked, from PC 2.1)
- HDD2: Seagate Barracuda Pro 10TB (shucked, from PC 2.2/NAS)
- Case: Thermaltake Versa H21 (new)
  - Cheap. Looks very outdated. Has HDD mounting.
    - 3x 3.5", also going to convert 5.25" into HDD mount.
  - I hate expensive cases. If it holds the components, good enough.
  - I don't even put side panels on. Nor do I cable manage. Who cares.
  - \$30 cheaper than N400 (previous near favorite case)
- PSU: Corsair RM1000x (used)
  - 80+ Gold

Basically bought everything off ebay.

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