

Forum:[Hack Forums](#)

Thread: [Thoughts my potential at home workstation/Server](#)

shreder - May 15, 2020, 11:09 pm

<https://pcpartpicker.com/list/w9Ymjp>

PCPartPicker Part List: <https://pcpartpicker.com/list/w9Ymjp>

CPU: AMD Ryzen 7 3700X 3.6 GHz 8-Core Processor (\$289.99 @ Amazon)
Motherboard: Gigabyte X570 GAMING X ATX AM4 Motherboard (\$169.99 @ Best Buy)
Memory: G.Skill Ripjaws V Series 64 GB (4 x 16 GB) DDR4-3200 Memory (\$259.99 @ Newegg)
Storage: ADATA XPG SX850 256 GB 2.5" Solid State Drive (\$37.99 @ Amazon)
Total: \$757.96
Prices include shipping, taxes, and discounts when available
Generated by PCPartPicker 2020-05-16 02:08 EDT-0400

I already have a Case/PSU. Something low TDP and yet powerful. Any suggestions or changes?
TBH i wanted this under \$300 was considering older intel xeon workstations.

I need something equal or atleast as strong in multicore as a 1950x or as close as possible and 64gb ram. Low tdp

Percyi - May 15, 2020, 11:15 pm

64 GB is way too overkill. You shouldn't even use more than 16 GB for anything heavy. You don't need a GPU?

shreder - May 15, 2020, 11:47 pm

(May 15, 2020 11:15 PM)?Kam Wrote: [\[CITE\]](#) 64 GB is way too overkill. You shouldn't even use more than 16 GB for anything heavy. You don't need a GPU?

Ill need 64gb as my workloads require it 64 should suffice. I forgot 3700x has no igpu.. ill just throw a old gtx600s card in it.

Percyi - May 15, 2020, 11:52 pm

(May 15, 2020 11:47 PM)shreder Wrote: [\[CITE\]](#) Ill need 64gb as my workloads require it 64 should suffice. I forgot 3700x has no igpu.. ill just throw a old gtx600s card in it.

I've never even remotely come close to using all of my 16 GB that I have let alone 64. That's insane. Are you running a nuclear plant?

Bastille - May 16, 2020, 12:24 am

64Gb seems a lot, considering the 3700x has 16 cores it means there is 4Gb for each core.

Not sure you can get something better regarding price/cores than the 3700X, otherwise there is the 3900X (12c/24t) but with higher TDP (105W).

Besides, are you sure everything will run based on an AMD CPU ? What kind of server you want to build ? Proxmox ? ESX ?

What kind of applications you want to run on it ?

Do you think 256 GB is enough for a server ? On a single disk ?

shreder - May 16, 2020, 5:53 am

(May 16, 2020 12:24 AM)Yseurk Wrote: [\[CITE\]](#) 64Gb seems a lot, considering the 3700x has 16 cores it means there is 4Gb for each core.

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storage isn't much I may upgrade in future to 1-2tb ssd if necessary. I'll end up doing some blockchain/runescape bots. 3700x is 8cores/16threads. I was wondering if a older xeon server maybe worth it. Tdp will be much higher but price of the build would be much lower because of ddr3.

Bastille - May 16, 2020, 7:35 am

(May 16, 2020 05:53 AM)shreder Wrote: [\[CITE\]](#) storage isn't much I may upgrade in future to 1-2tb ssd if necessary. I'll end up doing some blockchain/runescape bots. 3700x is 8cores/16threads. I was wondering if a older xeon server maybe worth it. Tdp will be much higher but price of the build would be much lower because of ddr3.

That's my point of view but I never go towards second hand devices / components, don't know what people did before with it :/

You Just Got Sarged - May 16, 2020, 11:14 am

(May 15, 2020 11:52 PM)?Kam Wrote: [\[CITE\]](#) I've never even remotely come close to using all of my 16 GB that I have let alone 64. That's insane. Are you running a nuclear plant?
I use over 16gb of ram when playing 7 days to die

shreder - May 16, 2020, 4:03 pm

(May 16, 2020 07:35 AM)Yseurk Wrote: [\[CITE\]](#) That's my point of view but I never go towards second hand devices / components, don't know what people did before with it :/

I usually buy second hand components never had an issue. Especially from a seller from ebay for example. im just curious of the tdp of those low end xeon chips.