Dream Computer

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1 Introduction

In this document we will be talking about what my dream computer would consist of. This dream computer is based on what is available for purchase or pre-purchase as of mid-September of 2020. The computer will be used by me and the main uses for this computer would be simple gaming done through steam and some game design work done in Unity.

2 My Dream Computer

2.1 Case

For the case for this build, we will most likely create a custom desk case for it, since a hollowed out desk case provides a significant amount of space that would not be provided in any traditional desktop case. This custom built desk would also provide more space for cooling, whether that be a custom water loop or even an air-cooled system. We would want to implement motorized legs into the table so that we could adjust the height of the table, in case we want a standing desk one day, or a regular desk another day.

2.2 Power Supply

A 1200W power supply would be something we would obviously need to run the hardware that we would be putting within this computer. So in this case we are going for the ASUS 1200W ROG Thor Platinum power supply.

2.3 Processor

For our processor we will be using the Intel i9-10980XE Extreme Edition, so that we have the power needed to do any coding related task I throw at it, and also not have to worry about any CPU bottle necking for any modern AAA gaming title as well.

Figure 1: Image of the ASUS power supply

2.4 Motherboard

Ah yes, the wonderful motherboard that brings our computers components together. For this we will be using the Asus ROG STRIX X299-E Gaming, which we are choosing for it's high ram capacity and also cause it's one of the few motherboards even compatible with the excessive CPU we chose.

2.5 RAM

For our Ram we are going for 4 of the Corsair Vengeance RGB Pro 32 GB sticks, for a whopping total of 128GB of RAM Running quad channel memory at a wonderful speed of 3200hz, will be enough to do any task I'd throw at it.

2.6 Storage

For our storage we are going to be going with 2 of Inland Premiums 1TB NVME SSD's for their form factor. I want to leave enough space within the case for a custom water loop, meaning I do not want to be running any large form factor SSD's within the case. So instead we are going to just take up our two PCIe slots for our storage for this device.

2.7 Graphics Card

For our Graphics Card for this build we will be using dual RTX 3090's along with an NVLink bridge from Gigabyte so that we can run the two in SLI. This should allow for enough graphics processing to be future proof for the next decade or so, considering one 3090 on it's own is already excessive.

2.8 Cooling

For the cooling for this project we are going to create a custom hard lined water loop. Though soft flexible tubing will make for a much easier installation

of the system, a hard loop always seems more satisfying and clean to accomplish. For this purpose, we are going to be using Thermaltakes Hard Tubing water cooling kit, mostly because I don't know how to do water cooling in computers and using a premade kit.

2.9 Color

though i do appreciate the aesthetic of heavy RGB computers at times, I personally do not enjoy the constant rainbow effect on my computer, especially during regular media consumption such as YouTube or Netflix. So to remedy this predicament of mine, we are going to set all the RGB components of this computer to just a static blue. Since I don't mind the blue glow within rooms emanating from a computer. The desk and other portions of the setup will be colored black, and if not already black, be spray painted black so that it will dampen the color coming off of the RGB.

3 Component List and Price

Component	Price
Custom Case	$2000
Power Supply	$435
Processor	$1000
Motherboard	$550
RAM	$540
Storage	$250
Graphics Card	$2800
SLI Bridge	$760
Cooling	$320
Total	$8655

4 Conclusion

Even though this is technically a dream computer, it is not as far out or excessive as some other people may want, merely because I don't care to have an excessive computer when I could spend the money elsewhere instead. The computer would more than be enough to meet the requirements I would put forth for the machine and would still have more than enough power to run any future programs for at least a solid decade.