Subject: New Build - Computer
Posted by Speedy059 on Tue, 19 Apr 2011 05:51:42 GMT
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Ordered parts just now, here is my new personal desktop build.

CPU: Intel Core i7-2600K
Memory: G.SKILL Ripjaws X Series 16GB (4 x 4GB) DDR3 1600 (PC3 12800)
Motherboard: MSI P67A-GD80 (B3) LGA 1155
SSD: 2x Crucial RealSSD C300 256GB - RAID 1(for OS)
HD: 2x 2TB - RAID 1 (for media)
Video Card: GeForce GTX 470
PSU: Suggestions? (Something that is energy efficient, I pay the bills around here. Will use what I got until I find something good...)

I debating whether to do a build where my operating system was placed on a SSD hard drive. Since I decided to do it, I had to get 2 SSD's since when they do fail, its within the first 2 months and I don't want to lose my data. Usually leave my computer on 24/7, so I think the SSD's will help conserve energy since the SATA 2TB hard drives will powered down for most of the day as I don't really use them.

Subject: Re: New Build - Computer
Posted by reborn on Tue, 19 Apr 2011 06:12:22 GMT
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Sorry, I cannot offer any advice on the PSU, but can I ask what you need all that memory for?

Subject: Re: New Build - Computer
Posted by Speedy059 on Tue, 19 Apr 2011 06:26:49 GMT
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reborn wrote on Tue, 19 April 2011 02:12Sorry, I cannot offer any advice on the PSU, but can I ask what you need all that memory for?

I do a lot of work from home and have a lot of applications open. And memory is cheap right now, so instead of 8GB I opted for 16GB.

Subject: Re: New Build - Computer
Posted by EvilWhiteDragon on Tue, 19 Apr 2011 07:30:05 GMT
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I can recommend the beQuiet Dark Power L9 series.

Although you might want to visit http://www.jonnyguru.com/ for good PSU reviews and how much they actually use.

Subject: Re: New Build - Computer
Posted by Reaver11 on Tue, 19 Apr 2011 11:15:23 GMT
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The Enermax galaxy series is also a quiete good PSU.
They sure have the Watts you need.
It might not be the most silent one.

Also it is modular so you dont have tons of cables.

Subject: Re: New Build - Computer
Posted by Creed3020 on Tue, 19 Apr 2011 12:35:17 GMT
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Excellent build and it would be really sweet if you went with RAID0 instead of RAID1 on that array. The speeds would be ridiculous and considering you would have another array you could just take a monthly system image and store it on those mechanical drives.

As for PSU I could not be more happy with my SeaSonic X-Series PSU. It is modular, Gold Level efficiency (cause I also pay the hydro bill), and the fan is barely even on it runs so cool. The AnandTech review is here: http://www.anandtech.com/show/4217/seasonic-xseries-560w

For your system I would probably recommend the 650w or 750w unit. They are all the same 850w PSU chassis and just tuned down to provide the necessary output levels.

Subject: Re: New Build - Computer
Posted by Boofst0rm on Tue, 19 Apr 2011 13:07:42 GMT
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Corsair AX series is probably the best but is also expensive
but you really dont wana cheap out on the psu

(Australian site, woulds probs be cheaper in america)
  http://www.pccasegear.com/index.php?main_page=product_info&cPath=15_535&
products_id=15250

Seasonic X series (also expensive)and Corsair HX series is also good if you want something cheaper

Seasonic X series and Corsair AX series are pretty much identical anyway but corsair give a 7 year warranty were as seasonic give 5

ive currently got a Antec TP 750, works fine and haven't had any faults but its not modular which sucks

Subject: Re: New Build - Computer
Posted by Hex on Tue, 19 Apr 2011 13:36:14 GMT
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Why would you get a 2600k ect then only get a GTX 470?

Subject: Re: New Build - Computer
Posted by Caveman on Tue, 19 Apr 2011 14:03:08 GMT
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Hex wrote on Tue, 19 April 2011 14:36Why would you get a 2600k ect then only get a GTX 470?
I was thinking the same. I would have personally gone for the 560gtx ti or the 570. Either of them cards would be ample.

Subject: Re: New Build - Computer
Posted by Herr Surth on Tue, 19 Apr 2011 14:07:51 GMT
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why would you get such an expensive pc

Subject: Re: New Build - Computer
Posted by F1r3st0rm on Tue, 19 Apr 2011 18:03:49 GMT
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yea my pc's from 2007-08 and i can run crysis 2 :S

Subject: Re: New Build - Computer
Posted by Speedy059 on Wed, 20 Apr 2011 01:18:29 GMT
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The graphics card is something I already have, and I don't get to play that many games and it still runs at the highest graphic levels on any modern day games I do play. I usually upgrade the graphics card every 6-10 months and I did that about 5 months ago. It's a work computer, and in no way will I do a RAID0 on SSD's. Monthly snap shots would be to old.

Subject: Re: New Build - Computer
Posted by halo2pac on Wed, 20 Apr 2011 02:13:02 GMT

you need more than 600 watts for the rig you got.
 http://www.newegg.com/Product/Product.aspx?Item=N82E16817139010&nm_mc=EMC-IG
NEFL041911&cm_mmc=EMC-IGNEFL041911-_-EMC-041911-Index-_-PowerSupplies-_-1713
9010-L05C

Stay with Legit brands. Corsiar, coolmaster, asus, antec.

Diablotech is on the rise for psus also.

Subject: Re: New Build - Computer
Posted by Speedy059 on Wed, 20 Apr 2011 06:00:15 GMT

halo2pac wrote on Tue, 19 April 2011 22:13you need more than 600 watts for the rig you got.
 http://www.newegg.com/Product/Product.aspx?Item=N82E16817139010&nm_mc=EMC-IG
NEFL041911&cm_mmc=EMC-IGNEFL041911-_-EMC-041911-Index-_-PowerSupplies-_-1713
9010-L05C

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Diablotech is on the rise for psus also.

I decided to get "SeaSonic X Series X650 Gold" PSU
(http://www.newegg.com/Product/Product.aspx?Item=N82E16817151088) since it had a gold
rating and had nearly 200 positive reviews. Same price as that other one you showed, and
hopefully just as good. Just trying to be 'green' to save some money due to energy prices since
my computer is on 24/7.

Subject: Re: New Build - Computer
Posted by EvilWhiteDragon on Wed, 20 Apr 2011 07:26:18 GMT

Speedy059 wrote on Wed, 20 April 2011 03:18The graphics card is something I already have, and
I don't get to play that many games and it still runs at the highest graphic levels on any modern
day games I do play. I usually upgrade the graphics card every 6-10 months and I did that about 5
months ago. It's a work computer, and in no way will I do a RAID0 on SSD's. Monthly snap shots
would be to old.

You could consider live backups wit Acronis True Image (home) or to take daily

incremental/differential backups. That shouldn't be too hard on your computer or too annoying it you set it to execute when you shutdown.

Subject: Re: New Build - Computer
Posted by Goztow on Wed, 20 Apr 2011 07:40:56 GMT
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I don't get the idea of two SSD's. If your data is on your sata's, then you cannot loose data if your SSD fails. Nice setup, BTW.

Subject: Re: New Build - Computer
Posted by EvilWhiteDragon on Wed, 20 Apr 2011 08:45:46 GMT
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Goztow wrote on Wed, 20 April 2011 09:40I don't get the idea of two SSD's. If your data is on your sata's, then you cannot loose data if your SSD fails. Nice setup, BTW.
I understand the 2 SSD's, I just don't understand why RAID1. Seems like a waste to me really. Proper backups would eitehr save you a lot of money or offer a lot more available diskspace and performance.

Subject: Re: New Build - Computer
Posted by Speedy059 on Thu, 21 Apr 2011 06:49:20 GMT
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EvilWhiteDragon wrote on Wed, 20 April 2011 04:45Goztow wrote on Wed, 20 April 2011 09:40I don't get the idea of two SSD's. If your data is on your sata's, then you cannot loose data if your SSD fails. Nice setup, BTW.
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I don't want to have to rebuild the computer and reinstall everything....even if I do have backups. That can take all day to restore everything to how it was even with backups.

Subject: Re: New Build - Computer
Posted by EvilWhiteDragon on Thu, 21 Apr 2011 07:21:51 GMT
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Speedy059 wrote on Thu, 21 April 2011 08:49EvilWhiteDragon wrote on Wed, 20 April 2011 04:45Goztow wrote on Wed, 20 April 2011 09:40I don't get the idea of two SSD's. If your data is on your sata's, then you cannot loose data if your SSD fails. Nice setup, BTW.

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If your backups are made regularly (say daily or even every 6 hours or w/e) then you would probably at maximum lose <time between backups>+2 to 3 hours in total. Depends a bit on the speed of your backup drives, but in general this would be pretty accurate from my experience. (120GB backed up to RAID5 consisting of Spinpoint F1/F3's, restored to RAID0 consisting of 2x Vertex 60GB)

Edit: Then again, if you have the monies, why not... Although I would do RAID3 or RAID5 then

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Subject: Re: New Build - Computer
Posted by Speedy059 on Thu, 21 Apr 2011 09:26:02 GMT
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EvilWhiteDragon wrote on Thu, 21 April 2011 03:21
Edit: Then again, if you have the monies, why not... Although I would do RAID3 or RAID5 then

lol, then if I got that someone would say...why not RAID 10? Then if I get that, someone will take it to the next level all the way up until a super computer. Funny trend on gaming forums...

Subject: Re: New Build - Computer
Posted by Hex on Thu, 21 Apr 2011 09:50:09 GMT
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halo2pac wrote on Wed, 20 April 2011 03:13you need more than 600 watts for the rig you got.
  http://www.newegg.com/Product/Product.aspx?Item=N82E16817139010&nm_mc=EMC-IG
NEFL041911&cm_mmc=EMC-IGNEFL041911-_-EMC-041911-Index-_-PowerSupplies-_-1713
9010-L05C

Stay with Legit brands. Corsiar, coolmaster, asus, antec.

Diablotech is on the rise for psus also.

No you don't, I doubt it would use any more than 450w (true not peak)

Subject: Re: New Build - Computer
Posted by EvilWhiteDragon on Thu, 21 Apr 2011 11:41:14 GMT

Speedy059 wrote on Thu, 21 April 2011 11:26EvilWhiteDragon wrote on Thu, 21 April 2011 03:21
Edit: Then again, if you have the monies, why not... Although I would do RAID3 or RAID5 then

lol, then if I got that someone would say...why not RAID 10? Then if I get that, someone will take it to the next level all the way up until a super computer. Funny trend on gaming forums...
Well, I guess that's kinda true, but when you're talking about SSD's and in particularly 256GB SSD's you're wasting quite a lot of space and thus monies with RAID1. RAID5 would limit your losses while still offering pretty much the same security. Edit: RAID1 does however make sense when you're using pure software RAID, so RAID in Windows. This because it would allow you to untilize the benefits of the TRIM command. If you are feeling comfortable with RAID5 you could also pick the smalle capacity drives to save money that way. Instead of 2 256GB drives you could have the same storage capacity with 3 128GB drives.

Btw, you should reconsider your SSD choice, you could pick the newer Crucial (updated version of your current selection), the new Vertex 3 or the Intel 510 series.

Subject: Re: New Build - Computer
Posted by Speedy059 on Thu, 21 Apr 2011 19:24:34 GMT

EvilWhiteDragon wrote on Thu, 21 April 2011 07:41Speedy059 wrote on Thu, 21 April 2011 11:26EvilWhiteDragon wrote on Thu, 21 April 2011 03:21
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Btw, you should reconsider your SSD choice, you could pick the newer Crucial (updated version of your current selection), the new Vertex 3 or the Intel 510 series.

Those 510's are only good for large file transfers. I don't do to much of that. I'm going for high IOP's, not 500MB/s transferring a moving around. Those 510's have an embarrassing number of IOPs. I would definitely need a RAID5 or 10 to compete with 2 Crucials.

I think what I have will suite me just fine. Thanks everyone.

Subject: Re: New Build - Computer
Posted by Creed3020 on Thu, 21 Apr 2011 23:24:57 GMT
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Glad to see you choose the SeaSonic. It will be a rock solid performer for you and also expansion well into the future.

Subject: Re: New Build - Computer
Posted by _SSnipe_ on Sat, 23 Apr 2011 06:56:44 GMT
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Whats the total price?

Subject: Re: New Build - Computer
Posted by Homey on Sat, 23 Apr 2011 06:59:11 GMT
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Hex wrote on Thu, 21 April 2011 05:50halo2pac wrote on Wed, 20 April 2011 03:13you need more than 600 watts for the rig you got.
   http://www.newegg.com/Product/Product.aspx?Item=N82E16817139010&nm_mc=EMC-IG NEFL041911&cm_mmc=EMC-IGNEFL041911-_-EMC-041911-Index-_-PowerSupplies-_-1713 9010-L05C

Stay with Legit brands. Corsiar, coolmaster, asus, antec.

Diablotech is on the rise for psus also.

No you don't, I doubt it would use any more than 450w (true not peak)
the 470 is not light on power consumption. I wouldn't risk going that low on a quad core system with a power hungry fermi card, no way. Maxing out a PSU is a terrible idea. 600 seems like the perfect sweet spot.

IOPs over speed is a great choice. Looks like a good rig. I understand the necessity for raid 1 if it's a work PC. If it's that important you should be doing backups to an external to be safe IMO.

Subject: Re: New Build - Computer
Posted by EvilWhiteDragon on Sat, 23 Apr 2011 11:09:29 GMT
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Also, if you delete a file on RAID1/0/5/10/w/e it's still gone. With backups you can retrieve them, not with RAID (recover tools don't count as often enough it's not possible to recover.

Subject: Re: New Build - Computer
Posted by Homey on Sat, 23 Apr 2011 11:39:48 GMT
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EvilWhiteDragon wrote on Sat, 23 April 2011 07:09Homey wrote on Sat, 23 April 2011 08:59Hex wrote on Thu, 21 April 2011 05:50halo2pac wrote on Wed, 20 April 2011 03:13you need more than 600 watts for the rig you got.
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Yes, that's why I said it's good to do both. RAID is good in case of a disk failure, tbh unlikely with

SSDs. Backups for non hardware issues.

Any important data I have is on multiple drives and online. If it's really important it shouldn't be inside the same pc.

Subject: Re: New Build - Computer
Posted by EvilWhiteDragon on Sat, 23 Apr 2011 12:23:07 GMT
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Homey wrote on Sat, 23 April 2011 13:39EvilWhiteDragon wrote on Sat, 23 April 2011 07:09Homey wrote on Sat, 23 April 2011 08:59Hex wrote on Thu, 21 April 2011 05:50halo2pac wrote on Wed, 20 April 2011 03:13you need more than 600 watts for the rig you got.
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Any important data I have is on multiple drives and online. If it's really important it shouldn't be inside the same pc.
I suspected as such, but it wasn't really clear imho, and there are enough people that think their data is safe with just RAID.