

Home Computer Analysis

TEJ3M1

Computer Engineering

Mr. C. Baxter

Name: _____

Instructions:

- analyze your home computer, making note of the information below (if you have more than one, pick one – if you don't have one at home you can use, see me)
- avoid leaving blanks – empty blanks = lost marks!
- you should be able to complete this exercise without opening the case – only do so if you really know what you're doing (and unplug the power first!)
- take photos of the model sticker and ports front and back and bring them in
- **information sources:** observation, manual, DOS startup screens, manufacturer websites, Start>Run>dxdiag and msinfo programs

1. Motherboard – state the

brand	model	CPU socket type
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2. CPU – state the

brand	model	clock speed	max speed	# cores
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3. BIOS

brand	version	most recent version?
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4. Motherboard expansion slots – total number of...

AGP	PCI	PCIe X1	PCIe X16	ISA
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5. Drive connectors – total number of...

floppy	IDE	SATA	eSATA
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6. On-board components and ports – total number of...

USB 1.1/2.0/3.0/3.1/C/Thunderbolt		LAN	audio ports
VGA	DVI	HDMI	DisplayPort

7. RAM

how much do you have?	how many DIMMs?	type
total slots	total empty slots*	max. RAM allowed

*you may need to make an educated guess

8. Physical Hard Drives (list as many as you have)

	type	capacity	bus type	RPM	file system	any partitions?
drive 0						
drive 1						
drive 2						
drive 3						

9. Optical Drives (list as many as you have)

	brand	type	bus type	speed
drive 0				
drive 1				
drive 2				
drive 3				

10. Other...

Power Supply (in Watts)	O/S + version
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Upgrades:

Upgrade #1 – you have a \$200 budget. What upgrades will you suggest to increase speed and performance? State how the performance will improve. Attach a parts list with sources and price list in \$CDN.

Upgrade #2 – you have a \$500 budget. What upgrades will you suggest to increase speed and performance? State how the performance will improve. Attach a parts list with sources and price list in \$CDN.

Build your own computer. You have an unlimited budget. Build an entire computer from scratch. Be sure not to leave out any parts, or your computer won't work! Attach a parts list with sources and price list in \$CDN.