

## Lab - Build a Specialized Computer System

Use the Internet, a newspaper, or a local store to gather information about building a specialized computer system that supports hardware and software that allows a user to perform tasks that an off-the-shelf system cannot perform. Be prepared to discuss your selections.

For this worksheet, assume the customer's system will be compatible with the parts you order.

- a. The customer runs an audio and video editing workstation to record and mix music, create music CDs, CD labels, and create home movies. The customer wishes to upgrade the components listed in the table.

Brand and Model Number	Features	Cost
Audio card		
Video card		
Hard drive		
Dual monitors		

Provide reasons for the components purchased. How will they support the customer's needs?

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- b. The customer runs computer-aided design (CAD) or computer-aided manufacturing (CAM) software and wishes to upgrade the components listed in the table.

Brand and Model Number	Features	Cost
CPU		
Video card		
RAM		

Provide reasons for the components purchased. How will they support the customer's needs?

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- c. The customer uses virtualization technologies to run several different operating systems to test software compatibility. The customer wishes to upgrade the components listed in the table.

Brand and Model Number	Features	Cost
RAM		
CPU		

Provide reasons for the components purchased. How will they support the customer's needs?

- d. The customer wishes to upgrade an HTPC with the components listed in the table.

<b>Brand and Model Number</b>	<b>Features</b>	<b>Cost</b>
Case		
Power supply		
Surround sound audio		
TV tuner and cable cards		

Provide reasons for the components purchased. How will they support the customer's needs?

- e. The customer wishes to upgrade a gaming computer with the components listed in the table.

Brand and Model Number	Features	Cost
CPU		
Video card		
Sound card		
Cooling system		
RAM		
Hard drive		

Provide reasons for the components purchased. How will they support the customer's needs?