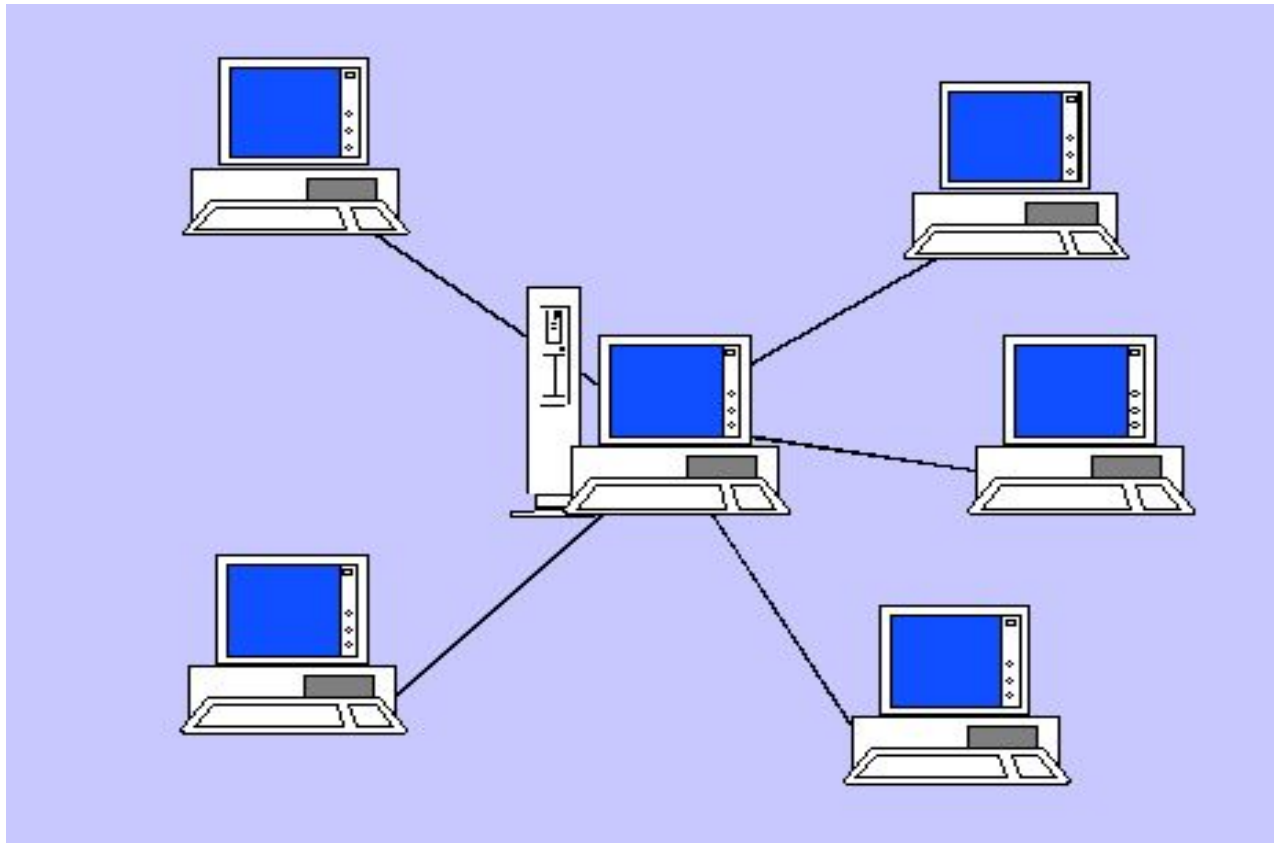




STAR-SHAPED
□
LOCAL AREA
NETWORK


A STAR IS A BASIC TOPOLOGY OF A COMPUTER NETWORK IN WHICH ALL COMPUTERS IN THE NETWORK ARE CONNECTED TO A CENTRAL NODE (USUALLY A SWITCH), FORMING A PHYSICAL NETWORK SEGMENT




- ▣ *Such a network segment can function both separately and as part of a complex network topology (usually a "tree"). All information exchange goes only through the Central computer on which in this way very big loading therefore anything other, except a network is assigned, it can't be engaged. As a rule, it is the Central computer is the most powerful, and it is entrusted with all the functions of network management.*



DIGNITIES

- ▣ *failure of one workstation does not affect the operation of the entire network;*
 - ▣ *easy search of faults and breaks in the network;*
 - ▣ *high network performance (subject to proper design);*
 - ▣ *flexible administration capabilities.*
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DISADVANTAGES

- failure of the Central hub will result in network (or network segment) failure as a whole;***
 - network laying often requires more cable than most other topologies;***
 - the final number of workstations in a network (or network segment) is limited by the number of ports in the Central hub.***
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APPLICATION

- One of the most common topologies, because it is easy to maintain. Mainly used in networks where a category 3 or 5 UTP twisted pair cable is used.



**star-shaped local
area network**

