

# Properties or Characteristics of Operating System :



1) Reliability :- Reliability is that a system does exactly what it is designed to do.

At software level OS must be more reliable on detecting viruses or malicious code as they take control of the system for their own purposes by exploiting design or implementation errors in the operating system's defenses.

2) Availability :- It is the percentage of time that the system is usable. Some system crashes frequently, losing the user's work. Both Reliability & Availability are desirable. Availability is affected by two factors :- the frequency of failures called the 'mean time to failure' (MTTF) - and the time it takes to restore a system to a working state after failure (for example, to reboot), the MTTR (Mean-time to Repair).

Availability can be improved by increasing the MTTF or reducing the MTTR.

3) Ease of Management :- OS must be easy to management as there are lots of help & tutorials are available to rectify the errors.

4) Security :- As OS has administrative users that can make changes to the computer but for other user to make changes he has to enter the password of administrator.

Associated Utilities :- O/S must have lots of Associated utilities available like windows O/S has lots of version and According to their version lots of free utilities are available like MS Office + MS SQL + Developing Languages.

Cost :- O/S Cost should be accordance of its features like windows has around £100 where Dos is free of charge as so is linux

Support for the users :- O/S should have help section for users if any error, any problem occurs.

like windows has proper help section and websites.

where linux has book in pdf format available and Dos has websites and forum for help as Dos is not much popular.

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