

International Islamic University Chittagong

Course Code: CSE-3632

Course Title: Operating System Sessional

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Q. What are the differences between acyclic and tree directory structures ?

Ans:

Acyclic graph directory:

1. An acyclic graph is a graph with no cycle and allows us to share subdirectories and files.
2. Searching is easy due to different-different paths.
3. We can share files.
4. We share the files via linking, in case deleting it may create the problem
5. If the link is a soft link then after deleting the file we left with a dangling pointer.
6. If any programmer makes some changes in the subdirectory it will reflect in both subdirectories.

Tree directory structures:

1. A tree structure is the most common directory structure. The tree has a root directory, and every file in the system has a unique path.
2. Searching becomes very easy, we can use both absolute paths as well as relative.
3. We can not share files.
4. It is inefficient, because accessing a file may go under multiple directories.
5. Every file does not fit into the hierarchical model, files may be saved into multiple directories.
6. Very scalable, the probability of name collision is less.