

## Tutorial 10

### File Management

Attempt the following questions before you attend tutorial.

1. What are the THREE types of disk allocation methods? For each, list the advantages and disadvantages.
  
2. Suppose a UNIX disk block will hold 2048 disk addresses and a block is of size 4KB. Given that a UNIX disk block has 12 direct pointers, and one pointer for each of the single, double and triple indirect pointer blocks, calculate the following :
  - (i) the maximum-sized file using only direct pointers;
  - (ii) the maximum-sized file using direct and single-indirect pointer capability;
  - (iii) the maximum-sized file using the above plus double-indirect pointer capability;
  - (iv) the maximum-sized file using the above plus triple-indirect pointer capability.