

## Week 3 update

### Discussion topics

- 1 ) Explore IDM .
- 2 ) Improve the MLFQ code . (done in the last pdf)
- 3 ) Explore ns-3

### **IDM (Internet download manager )**

- IDM is a software to increase the download speed .

Official link of the software to download : <https://www.internetdownloadmanager.com/>

### **Working Process of IDM :**

IDM splits the whole into subparts and then download the subparts or subfiles and then combined them before delivering to the end user

### **Condition to make the speed faster :**

IDM would make download faster only If the server (where you are downloading the file) is slow or has speed limitation on single connection. Because it create multiple thread and try to download simultaneously and combine them later.

There are two cases IDM can make download faster.

1. The server is busy and many are downloading the same file.
2. Server has a maximum download speed limit.

In laymen terms If your browser showing downloading speed of your actual connection IDM would not make the download even faster.

Eg: you have 100mbps line then your download speed will be 12.5MB per second. If your browser is downloading a file in that speed IDM is not going to make that file even faster. IDM cannot exceed your bandwidth speed but it can utilize your bandwidth very well when server has limitations.

Source :

[Does IDM `really` increase your download speed? | by Angry Red Cat | #share\\_the\\_knowledge | Medium](#)

### **Next step :**

1. Try to use the concept of multithread inside the MLFQ and then check is it a better way to decrease the delay rate.
2. Work on ns-3

