

Evaluation Part III

Here we are comparing performance of Centralized system VS Distributed System for download operation. Evaluation-I has performance evaluation of distributed system. Same kind of evaluation performed here on Centralized System.

10000 number of files are registered and downloaded from Single peer, two peers, four peers and eight peers concurrently. Size of each file is 1KB.

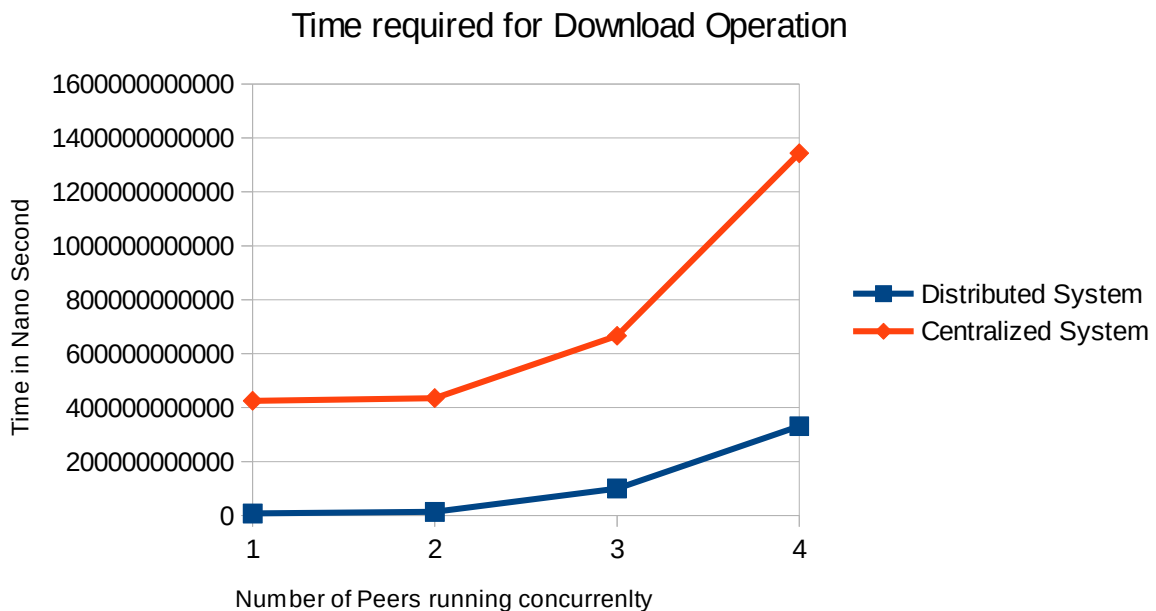
Total number of files = 10000

Size of each file = 1KB

Following is the table and graph shows time required for download operation when performing download operation from one peer, two peer, four peer and eight peer concurrently respectively.

Time required for Download operation in Distributed and Centralized System :

Number of Peers running concurrently	Time Required for Download (Nano Second)	
	Distributed System	Centralized System
1	7,504,035,389.00	425,387,114,991.00
2	13,377,177,791.50	435,301,178,315.00
4	99,919,666,915.25	666,337,483,978.00
8	331,067,504,897.75	1,343,756,946,353.00



Evaluation Details for Centralized System

1. Downloading 10000 files from one Peer.
Size of each file 1KB.
Time Required (Nano Second) : 590223921821

Time required for operation in Nano Second

	Download
Peer 1	425387114991

```
sachin@sachin-HP-Pavilion-15-Notebook-PC: /media/sachin/Ma
Menu
(Local Server IP: /10.0.0.30:1110)
1. Show available files
2. Enter file name to download
3. Exit
Enter your choice :
2
Start time1315334086801
Ended at 1740721119136
Time required for download(NanoSecond) : 425387114991
```

2. Downloading 10000 files from two Peers concurrently.
Size of each file 1KB.
Time Required (Nano Second) : 438222670784

Time required for operation in Nano Second

	Download
Peer 1	435631635552
Peer 2	434970721078
Average	435301178315

3. D

Ubuntu Desktop

RESUME_SACHIN_AMBALKAR.pdf

```
sachin@sachin-HP-Pavilion-15-Notebook-PC: ~/workspace/
9981. file2402.txt
9982. file8479.txt
9983. file449.txt
9984. file692.txt
9985. file9677.txt
9986. file8450.txt
9987. files999.txt
9988. file2560.txt
9989. file7946.txt
9990. file7071.txt
9991. file6963.txt
9992. file415.txt
9993. file8888.txt
9994. file1873.txt
9995. file7212.txt
9996. file6529.txt
9997. file6612.txt
9998. file432.txt
9999. file1531.txt
Updated 10.0.0.30:5020
Updated 10.0.0.30:5020
```

```
sachin@sachin-HP-Pavilion-15-Notebook-PC: ~/workspace/A
Menu
(Local Server IP: /10.0.0.30:4010)
1. Show available files
2. Enter file name to download
3. Exit
Enter your choice :
2
Start time363826369433
DownloadedFiles directory created
Ended at 799457929047
Time required for download(NanoSecond) : 435631635552

sachin@sachin-HP-Pavilion-15-Notebook-PC: ~/workspace/
Menu
(Local Server IP: /10.0.0.30:5010)
1. Show available files
2. Enter file name to download
3. Exit
Enter your choice :
2
Start time364203132094
DownloadedFiles directory created
Ended at 799173797088
Time required for download(NanoSecond) : 434970721078
```

Size of each file 1KB.

Time Required (Nano Second) : 438222670784

Time required for operation in Nano Second:

	Download
Peer 1	667905753800
Peer 2	668031786837
Peer 3	665152620805
Peer 4	664259774470
Average	666337483978

```
Ubuntu Desktop
sachin@sachin-HP-Pavilion-15-Notebook-PC: /media/...
Menu
(Local Server IP: /10.0.0.30:1110)
1. Show available files
2. Enter file name to download
3. Exit
Enter your choice :
2
Start time257317473256
DownloadedFiles directory created
Ended at 925223177370
Time required for download(NanoSecond) : 667905753800

sachin@sachin-HP-Pavilion-15-Notebook-PC: /media/sa...
Menu
(Local Server IP: /10.0.0.30:2210)
1. Show available files
2. Enter file name to download
3. Exit
Enter your choice :
2
Start time259683901006
DownloadedFiles directory created
Ended at 927715639968
Time required for download(NanoSecond) : 668031786837

sachin@sachin-HP-Pavilion-15-Notebook-PC: /media/sach...
Menu
(Local Server IP: /10.0.0.30:3310)
1. Show available files
2. Enter file name to download
3. Exit
Enter your choice :
2
Start time257794254485
DownloadedFiles directory created
Ended at 922946820952
Time required for download(NanoSecond) : 665152620805

sachin@sachin-HP-Pavilion-15-Notebook-PC: /media/sachin/M...
Menu
(Local Server IP: /10.0.0.30:4403)
1. Show available files
2. Enter file name to download
3. Exit
Enter your choice :
2
Start time258603359046
DownloadedFiles directory created
Ended at 922863098546
Time required for download(NanoSecond) : 664259774470

9999. file39998.txt
10000. file39999.txt

Updated 10.0.0.30:4404
Updated 10.0.0.30:4404
Updated 10.0.0.30:4404
Updated 10.0.0.30:4404
```