

Synchronizing Data operations with Space Utilization Mechanism

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Abstract- In human-computer interaction, cut & paste and copy & paste are related commands that offer a user-interface interposes communication technique for transferring data. In both cases the selected data is placed in a clipboard and file operations are performed like insertion and deletion. Our proposed approach is specifically designed to handle a number of deletions linear in the length of file for different operations where space utilization, security mechanism, splitting and concatenation operations are performed on file information.

I. INTRODUCTION

In this work, we deal with efficient load balancing between the different resource nodes that process the client tasks, in a secure way as well as the elimination of possible single point of failure in a semi centralized load balancing architecture. To ensure that the two fundamentals i.e. co-ordination (the right things) and synchronization (the ideal time) of the processes will be executed we use synchronization algorithms. With such synchronization algorithms security will be provided to the data while transmission. This leads to less time consumption as the tasks are been executed concurrently. Our System is a mixture of distribution model for P2P network. Data Sharing System, which has attracted the largest number of users, is the main application scheme for P2P file sharing. In broadcasting network, a single file is shared by numerous clients. The global data(files) to be transmitted is divided into Chunks(i.e. breaking the files into pieces) using chunking mechanism. The chunks can be of fixed size or variable size. All the parts connects to a central node called tracker to get a list of parts. Once all the distributed pieces are obtained at single location then whole data is successfully broadcasted to destination path.

II. PROPOSED ARCHITECTURE

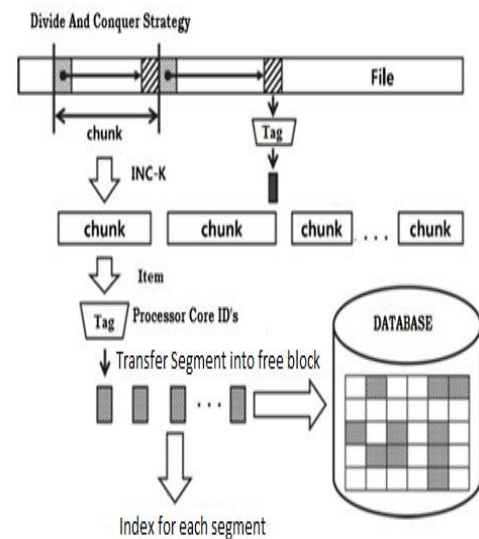


Fig. 1.1 Proposed Architecture

III. SYSTEM REQUIREMENTS

Sr.No.	Software Component	Details(Technical details with Purpose)
1.	Operating System	Windows or Linux
2.	Technology	JAVA
3.	Tool	Netbeans or Eclipse
4.	Database	MySQL
5.	Server	Apache Tomcat 6.0

Table 1.1:- Software requirement

Sr.No.	Component	Details
1	Processor	Intel Core 2 Duo or Above
2	Memory	2 GB (Min)
3	Network Interface	AdHoc or TCP-IP
4	Other (If Required)	Ethernet RJ45 Cable

Table 1.2 :- Hardware requirement

III. EXPERIMENTAL RESULT



Fig2.1 Login window

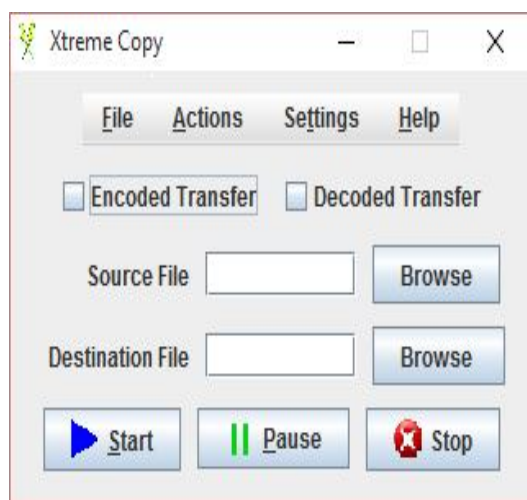


Fig2.2 Main window

IV. CONCLUSION

In this project, we consider the issue for integrity checking of data sharing approaches with a remote server and will propose an efficient data securely sharing which will be specifically designed to handle a number of deletions linear in the length of the file for different operations where space utilization, security mechanism, splitting and concatenation operations are performed on file information. Our System also consist of verification methodology for integrity for the files stored on remote server, and reduces the storage costs and computation costs of the data. The presented scheme design is based on new lightweight hybrid data structure to support dynamic operations on blocks which incurs minimum computation costs by decreasing the number of node shifting. Using our new data structure, the data owner can perform insert, modify or delete operations on file blocks with high efficiency

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