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Research paper



Retrieving System Performance

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Abstract

A system used for backing files, storing and retrieving. The temporary storage is created for storing the files using hard disk. The operating system makes the backup of all the details. The operating system will be compared and if it same the data and information will be combined. Otherwise distracted information is stored in common file and retrieved.

Keywords: *Use about five key words or phrases in alphabetical order, Separated by Semicolon.*

1. Introduction

A system performance monitor (SPM) application informs the operations of the computer. It evaluates the performance of the given system. SPM application also includes the usage of CPU, hard disk and memory. It is a tool to provide suggestions to improve the performance of the systems. SPM also provides graphical representation to evaluate the performance of the system easily. Administrator can also schedule the system based on the report of SPM.

2. Existing System

The main purpose of the tool is to improve the system performance and to provide implication to fix the problem in UNIX. The performance of the system is fully depends on the kernel of the system. Most commonly raised problem is slow performance. It is also very difficult to maintain the capacity of the storage. The accessing speed of the memory is also getting reduced. The performance of the networking is very slow due to the poor storage.

2.1. Disadvantages

- System speed is very low.
- The network accessing speed is very less.
- Occur the problem of memory maintenance.

3. Proposed System

The main objective of the operating system is to provide efficient use of resources. The system efficiency can be measured through the following advantages to improve the speed, reduce the congestion and to provide an accurate result.

3.1. Advantages

- Reduce overload problem
- Increase the system speed.
- The result is very accurate.

4. Problem Definition

The system can perform the file transaction from one system to another device through one to one connection .Therefore it consumes a lot of time, wastage of phone charge and unsecured file transfer. Then user can't to be monitoring the network speed, system storage details, internal external memory details and, etc.

5. Overview of the Project

The Project "monitoring the system performance" application will be developed as an extension of normal maintenance of system performance to the user. The user can be read the system speed, network speed and drive details etc… The information provided to improve the system performance and sharing, rewriting the storage area to earn the better result.

6. Module Description

There are four modules for storage, memory and performance.

6.1. Modules used

- Storage file details
- Memory space
- Runtime memory space
- Performance evolution

6.2. Memory Space

The information stored temporarily in external storage to transfer data from one system to another. Using external memory requires high cost. To reduce the cost several disks are used.

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6.3. Runtime Memory Space

The existing memory is not able to measure the runtime memory accurately.

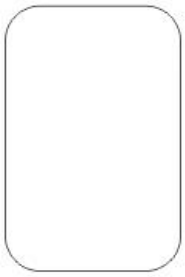
6.4. Performance Evolution

The evaluation of performance will increase the opportunities for work team. It is measured the workers performance and motivate them for better results through suggestions. Providing feedback against the evaluation.

7. Data Flow Diagram

Data flow diagram informs the flow of components of a software or project. The process flow will be represented in the format of graph.

7.1. Data flow Symbols

Symbol	Description
	Entity : Source or Destination
	Processing of the system.
	Storage area of data
	Flow of data

8. System Testing

System testing is a testing of hardware and software. Knowledge of logic is unnecessary for system testing.

9. Unit Testing

Unit testing deals with components of a software. It is a small part of testing. Developers are involved in unit testing. It includes functions, interfaces, and classes as a part of software for unit testing.

10. Validation Testing

Validation testing is the process of checking whether the software specification satisfies the customer need.

11. User Acceptance Testing

User acceptance testing is a client side testing. The user validates the software whether it meets their requirements. This is a final testing performed before the deployment of the software.

12. Black Box Testing

Black-box testing is a high level testing and it is a method of testing that the internal functionality of the project is not known to the tester.

13. White Box Testing

White-box testing is a lower level of testing method, whereas the internal structure of the software must known to the user.

14. System Implementation

The secondary storage comprises two properties. One is to allow the storage to rewrite the data. Second is to allow only minor movement of disk. The information based on booting of the system will be stored in boot sector of the operating system. The details contain number of bocks, partition table and number of free blocks available. The file control block (FCB) involves size, permission etc..Linear search algorithm is used to find files.

15. Conclusion

In this project the system information can be reclaim easily and accurately. There is no missing of files. Networking speed will also be increased and good maintenance of storage.

Future Enhancement

The networking speed of windows vista and windows 7 will be increased and also maintain the accuracy of system performance.

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