Tally.Server 9

Performance Fact Sheet

Version: Performance Fact Sheet/January 2013

Tally.Server 9 Performance Fact Sheet

Tally.Server 9 will provide Tally.ERP 9 large and mid sized business users the necessary power and control for their growing business needs.

Performance with increasing No. of Users (Mid-size co.)

Performance with increasing No. of Users (Large-size co.)
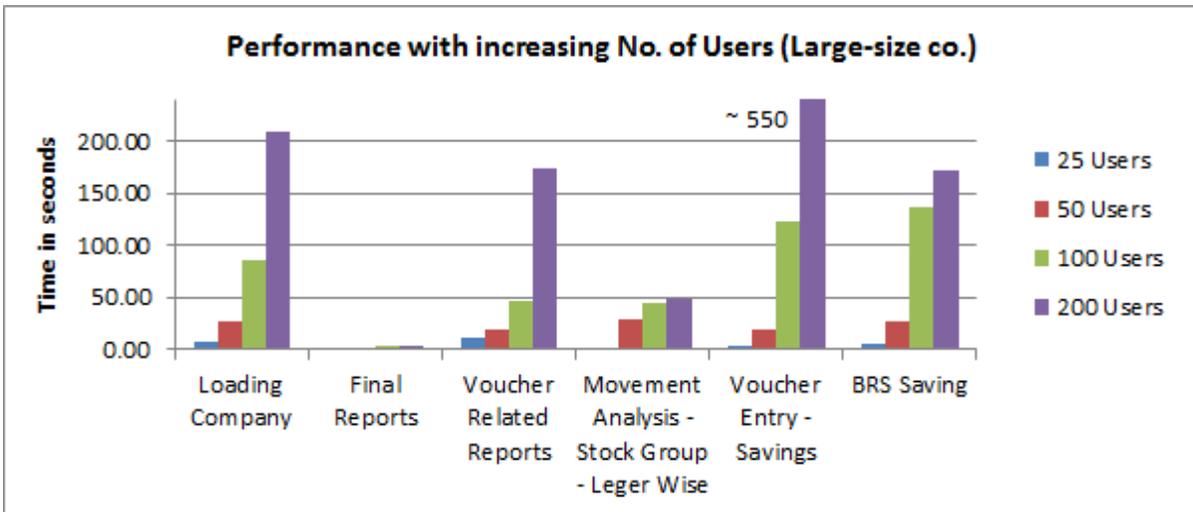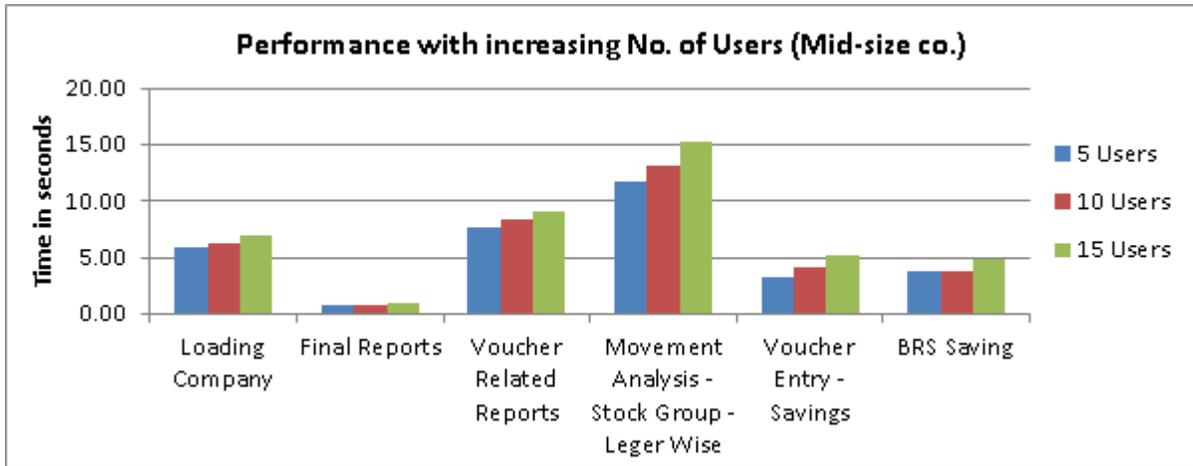
- □ The versioned concurrency experience clearly indicates that with simultaneous read and write usage also, **reconciliation** can be done **within** few minutes or even **seconds**.

- □ The timed snapshot of data ensures that increase in the number of users does not halt **viewing of reports**.

- □ Even though **200 users** are actively working in a concurrent environment, they **easily continue** entry saving, report viewing and reconciliation activities.

- □ Even up to 100 users can simultaneously save **voucher entries** within few minutes.

Tally.Server 9 has been tested for concurrency in a multi-user environment with the number of users ranging from 5 to 200.

The below table shows details of the test, based on the type of activity being done by various users against the number of users performing such activity. For example, in the 5 user scenario, 1 user is viewing Final Reports, 1 user is viewing Voucher Related reports, 2 users are viewing Movement Analysis Report and 1 user is recording and saving a voucher.

| TEST CASE	BREAK-UP OF USER ACTIVITY FOR EACH SCENARIO						
	NUMBER OF USERS						
Final Reports	1	2	3	6	13	26	52
Voucher Related Reports	1	2	3	7	13	26	52
Movement Analysis - Stock Group	2	4	6	7	14	28	56
Voucher Entry - Navigations	1	1	2	4	9	19	39
Voucher Entry - Savings							
BRS Report	No user	1	1	1	1	1	1
BRS Saving							
No. of Concurrent Users	5 Users	10 Users	15 Users	25 Users	50 Users	100 Users	200 Users

The below table shows the average time taken per activity, in different user scenarios. For example, the average time taken for 1 user in opening Final Report (in a 5 user environment as per above table) is 0.71 seconds, while for 2 users (in a 10 user environment) is 0.84 seconds. This changes to about 4.14 seconds required by 52 users (in a 200 user environment as per the above table.)

| NUMBER OF USERS	5	10	15	25	50	100	200
TEST CASE	AVERAGE TIME TAKEN (in seconds) FOR EACH ACTIVITY						
Final Reports	0.71	0.84	1.06	0.86	1.70	2.62	4.14
Voucher Related Reports	7.22	8.39	9.06	11.59	18.96	46.07	174.62
Movement Analysis - Stock Group	0.51	2.57	3.53	0.55	8.57	18.93	35.07
Voucher Entry - Navigations	3.20	4.12	5.00	4.89	12.09	21.49	71.78
Voucher Entry - Savings	3.39	4.18	5.12	4.16	19.44	122.14	536.47
BRS Report	No User	0.75	0.87	0.89	1.01	1.15	1.67
BRS Saving	No User	3.72	4.78	5.10	27.56	137.16	171.18

The lab tests done included the Test cases listed in the table and were performed concurrently on repetitive basis for a duration of 45 minutes. The system used for the test is i5, with 4GB RAM, on Windows 7.

Performance during 'Server based access' compared with 'Share based access'
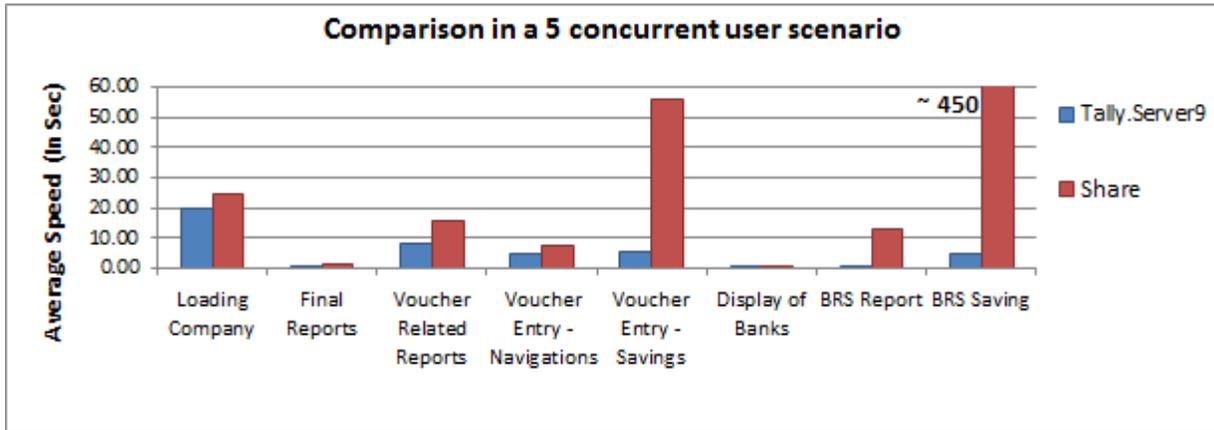
In a multi-user environment, with 5 concurrent users, the following observations were made:

◻ Despite the load of memory intensive tasks being performed by the users, with Tally.Server 9, it is possible for the user entering data to save vouchers in 5.36 seconds, in contrast with 55.92 seconds required with Share based access.

◻ Compared to Share based access, users can save Bank Reconciliation 99 times quicker after installing Tally.Server 9.
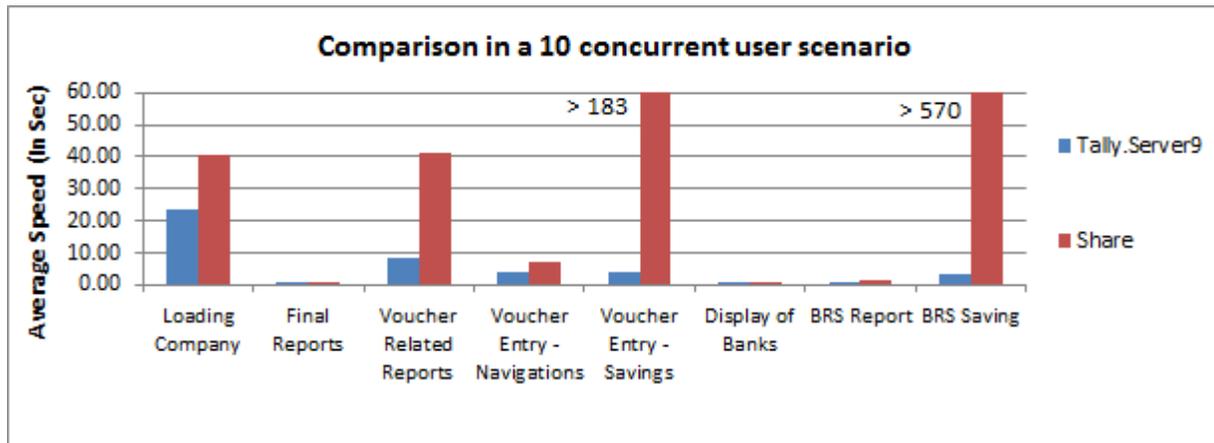
In a multi-user environment with 10 concurrent users, the following observations were made:

◻ Tally.Server 9 made saving of a voucher possible in just 4.22 seconds in contrast with 183 seconds (~3 minutes) taken by Share based access for the same task. This is despite 8 users viewing reports at the same time.

◻ Saving Bank Reconciliation took just 3.29 seconds after installing Tally.Server 9 whereas with Share based access, the user had to wait for almost 9 minutes to do the same.

About Tally.Server 9

Tally.ERP 9 with all its exciting capabilities will be made an even more powerful business solution, by deploying Tally Server. 9. With this, the solution will experience forever available data, in a concurrent multi-user scenario and all of this in a safe and secured environment. Tally.Server 9 is a powerful data server that will redefine the efficiency of medium and large businesses, where multiple users perform various activities simultaneously, on the same data. It is an extremely simple-to-deploy product that provides concurrent, fast and secure access to Tally data, advanced monitoring and administrative control.

Concurrency

Concurrency of Data implies multiple users can execute multiple tasks on the company's data simultaneously.

What happens in a non-concurrent, multi user, data sharing environment?

In a multi user environment, more than one user tries to access the same data. Some require to 'write' data (for e.g. record / alter transactions) while some require to 'read' data (for e.g. viewing Reports). When data sharing is not concurrent, whenever a user is modifying or accessing a piece of information that any other user is already operating on, he/she will have to wait for the other user to finish. This affects the performance and the impact increases as the number of users on the system increase.

Benefits of Concurrent Data Sharing

◻ One user's activity will not hinder/impact another's activity. Every user will feel as if he/she were working with their own local copy or snapshot of data.
◻ All users operate simultaneously, on the same data, and hence work progresses quickly.

Share Based Access

A Gold License of Tally.ERP 9 Series A offers the user a multi-user environment. Conventionally, data in a LAN was shared through shared service. This functionality allowed convenient sharing of data between 5 to 10 users.

Need of a Robust System

As the number of users accessing the company's data increase, the need to handle a large volume of data and at the same time cater to multiple 'read' and 'write' requests posed by many users also increases.

Tally.Server 9

Tally.Server 9 will provide Tally.ERP 9 Gold users the necessary power and control for their growing business needs. On installing Tally.Server 9, organizations that operate with more number of users will see a phenomenal increase in productivity. Multiple users will be able to simultaneously load companies, save transactions, export reports, print reports, import data, take backup and perform other data related activities with increased efficiency and no wait time.