

# SYSTEM PERFORMANCE: WHAT YOU LOSE IF YOU ONLY DEFRAG ONCE A WEEK

Is once-a-week defrag viable as a performance solution for the corporate environment? The Diskeeper Corporation field testing division measured the performance impact such a schedule would have if implemented. Data was taken from actual working environment systems in busy corporations. Normal weekly operations were run but with only a weekly defrag.

The results that most closely reflected the activity of a corporate system indicated around 5,000 new fragments created daily.

A script was created that reflected typical computer activities performed by a majority of computer users: writing and editing MS Office files, web browsing, copying audio, video, and image files, etc. The script used a simulation of the weekly workload on the system. System performance was measured after running the workload script.

Then, the same script was run on an identical system with an identical initial volume state with Diskeeper® 2010 performance technology and real-time fragmentation prevention.

## Test 1 – Readfile on a folder with Word documents:

With Diskeeper:	30,070.6 msec	52% access time reduction
No Diskeeper:	62,025.6 msec	

## Test 2 – Readfile on a folder with Excel documents:

With Diskeeper:	219.0 msec	47% access time reduction
No Diskeeper:	412.4 msec	

Compared to systems defragged once a week, access to Word and Excel documents is twice as fast when fragmentation levels are at or close to zero throughout the week. This means everyday productivity, which is commonly measured by system response time, improves across the boards.

## Test 3 – Readfile on the most fragmented file:

With Diskeeper:	122.4 msec	80% access time reduction
No Diskeeper:	625.2 msec	

This is a very significant result because the most fragmented files are those files that are most used and relied upon. Very likely they are shared and therefore affect the productivity of more than one person. An 80% reduction is nearly a 4X increase in file access. And this performance gain will be experienced repeatedly, due to the file's frequency of use.

## Test 4 – Copy file test on data folders with documents, pictures and video files:

With Diskeeper:	16 minutes	50% reduction in file copy time
No Diskeeper:	32 minutes	

As file and volume sizes grow geometrically, larger amounts of data are being copied and moved in single folders, often creating I/O bottlenecks and system slows. This is a hidden cost to performance when fragmentation exists. Doubling system speed in this area most often benefits the file server, the hub of corporate productivity.

### Test 5 – Virus scan of a Word document folder:

With Diskeeper:	4.5 sec	40% reduction in virus scan time
No Diskeeper:	7.5 sec	

End point virus scans done on workstations, laptops and file servers absorb system resources. Fragmentation slows the scan down and requires a larger window of time to complete. If done during production hours, performance is impacted for a longer period of time than scanning a defragmented file. If defragmentation is done off hours, a longer scan window needs to be open and other maintenance will have to wait.

### Conclusion:

On an average over 50% of the original performance is lost with once-a-week defrag.

On a small corporate site of five servers and 20 workstations, this is significant. On a large site it is completely unaffordable. Diskeeper improves overall performance by at least that much and maintains peak performance every minute the systems are active.

Test Diskeeper 2010 for yourself, on your own laptops, workstations and servers and see the difference it can make for you. **Get the full version trial.**

Or call us for a customized, no-obligation quote: 800-829-6468