From: Technical Account Manager Sent: Tuesday, June 09, 2009 11:39 AM

To: Sales Engineer - Mark

Subject: Diskeeper 2K9 and ESX Servers

I recently visited a large pharmaceutical manufacturer who uses a large number of virtual systems throughout their production environment. In their environment I was given access to a typical virtual system (Windows 2003 Server) running on an ESX host. They had not yet defragmented or installed Diskeeper. I installed Diskeeper, but disabled the automatic defrag operation so I could get a true fragmentation analysis before Diskeeper had a chance to move any files. The result was that there were 28,809 Total Files. 6,228 of these files were fragmented into a total of 55,393 fragments. I then used a tool from the internet http://www.winimage.com called Readfile.exe which measures the time and throughput to perform an open, read to end of file, and close of a given file.

I targeted the top 10 most fragmented files from the analysis previously taken and noted the results. I then defragmented this virtual system using Diskeeper. Once the defragmentation was finished I again used Readfile.exe to take another performance measurement.

Before Diskeeper			After Diskeeper			Improvement				
ReadFile.EXE Most Fragmented Files		Fragments	Kb/Sec	msec	Fragments	Kb/Sec	msec	Fragments	Kb/Sec	msec
File 1	49MB	12,187	1,079	48,018	0	66,655	777	100.00%	98.38%	98.38%
File 2	163MB	2,883	12,827	13,333	0	68,911	2,481	100.00%	81.39%	81.39%
File 3	116MB	2,810	10,298	11,759	0	68,119	1,777	100.00%	84.88%	84.89%
File 4	114MB	2,489	10,891	11,018	0	68,932	1,740	100.00%	84.20%	84.21%
File 5	81MB	2,469	8,468	10,037	0	69,508	1,222	100.00%	87.82%	87.83%
File 6	8,203КВ	1,299	2,015	4,166	0	56,374	148	100.00%	96.43%	96.45%
File 7	8,151KB	1,294	1,934	4,314	0	56,017	148	100.00%	96.55%	96.57%
File 8	57MB	1,115	11,489	5,240	0	67,732	888	100.00%	83.04%	83.05%
File 9	6,953KB	1,092	2,023	3,518	0	54,768	129	100.00%	96.31%	96.33%
File 10	6,143KB	1,080	1,768	3,555	0	48,386	129	100.00%	96.35%	96.37%

The data above clearly documents that there is a performance benefit in both elapse time and throughput of a defragmented virtual Windows System as compared to the same exact system in its fragmented condition.

Best Regards,

Howard Butler
VP of Technical Support
Diskeeper Corporation
Innovators in Performance and Reliability Technologies