

Robocopy Multi-threaded Testing Results

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Agenda

- Robocopy basics
- Comparison of results with and without the /MT option
- We performed a newer set of ROBOCOPY tests and shared these results at the March 2011 meeting. Go to:
http://www.demartek.com/Demartek_Presenting_RMWTUG_March_2011-03.html

Testing Environment

- **Three Servers**
 - **File Server: Windows 2008, 64-bit, Intel Xeon X3363, 2.83 GHz, 4 cores, 8GB RAM, SATA disk drives, 1Gb NIC**
 - **SRVR-E: Windows 2008 R2, 64-bit, Intel Xeon E5345, 2.33 GHz, 8 cores, 16GB RAM, SAS disk array, 1Gb and 10Gb NICs**
 - **SRVR-F: Windows 2008 R2, 64-bit, Intel Xeon E5345, 2.33 GHz, 8 cores, 16GB RAM, SAS disk array, 1Gb and 10Gb NICs**

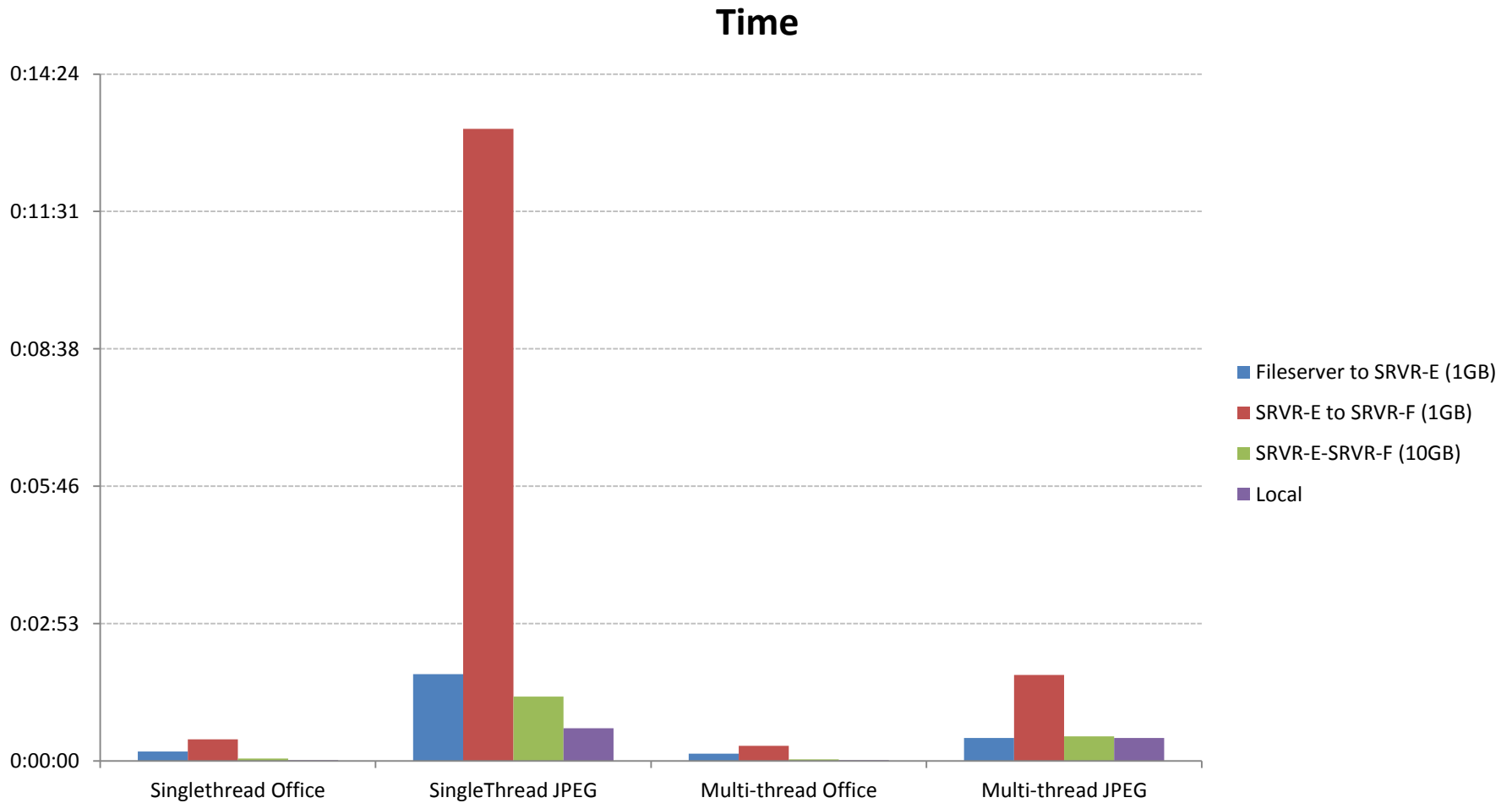
Data Copied

- **JPEG folder**
 - 1.36 GB (1.46 GB on disk)
 - 56,159 files
 - JPEG files
- **Office documents folder**
 - 1.16 GB (1.16 GB on disk)
 - 421 files
 - Mixture of DOC, XLS, PPT, VSD, PDF, HTML

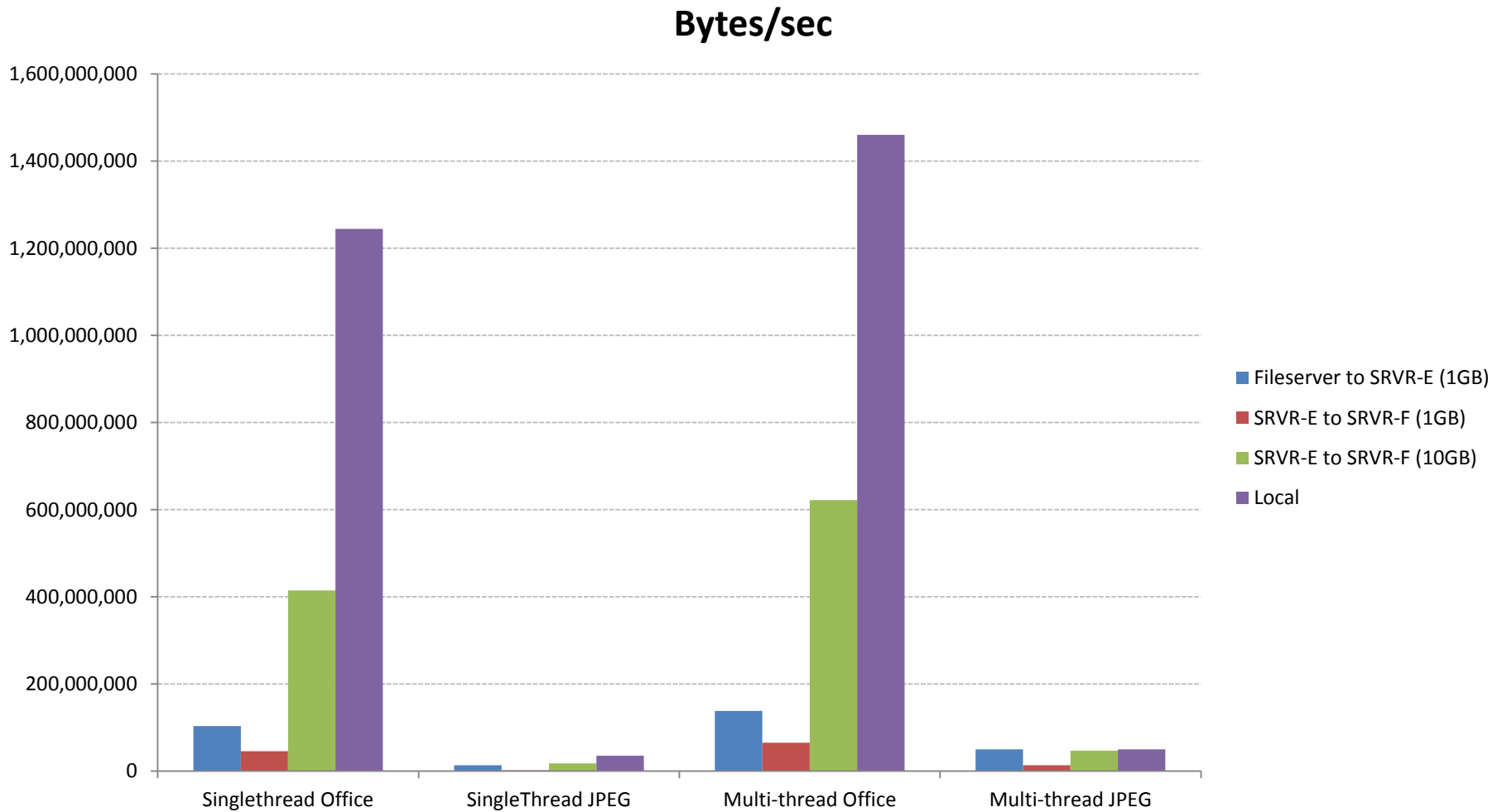
Tested Combinations

1. Fileserver to SRVR-E, 1Gb
2. SRVR-E to SRVR-F, 1Gb
3. SRVR-E to SRVR-F, 10Gb
4. SRVR-E local disk to disk
 - SAS disk array
 - Two RAID0 volumes

Results – Time



Results – Bytes/sec



Results – Data

Name	Bytes (GB)	Times	Bytes/sec
ST-1GB-2008/2008R2-Office	1.159	0:00:12	103,705,565.00
ST-1GB-2008/2008R2-JPEG	1.360	0:01:49	13,397,146.00
MT-1GB-2008/2008R2-Office	1.159	0:00:09	138,274,086.00
MT-1GB-2008/2008R2-JPEG	1.360	0:00:29	50,354,788.99
ST-10GB-2008R2/2008R2-Office	1.159	0:00:27	46,091,632.00
ST-10GB-2008R2/2008R2-JPEG	1.360	0:13:15	1,836,841.00
MT-10GB-2008R2/2008R2-Office	1.159	0:00:19	65,498,251.00
MT-10GB-2008R2/2008R2-JPEG	1.360	0:01:48	13,521,193.00
ST-10GB-2008R2/2008R2-Office	1.159	0:00:03	414,822,258.00
ST-10GB-2008R2/2008R2-JPEG	1.360	0:01:21	18,028,258.00
MT-10GB-2008R2/2008R2-Office	1.159	0:00:02	622,233,387.00
MT-10GB-2008R2/2008R2-JPEG	1.360	0:00:31	47,106,093.00
ST-Local-Office	1.159	0:00:01	1,244,466,774.00
ST-Local-JPEG	1.360	0:00:41	35,616,802.00
MT-Local-Office	1.159	0:00:01	1,460,288,880.00
MT-Local-JPEG	1.360	0:00:29	50,354,789.00

Future Tests

- Intel Nehalem-class servers
 - Different processor speeds and platforms
 - Different amounts of memory
 - Go to:
http://www.demartek.com/Demartek_Presenting_RMWTUG_March_2011-03.html
- Various SSDs (SATA and SAS)
- White Paper will be posted at
www.demartek.com

Contact me

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