TPoX (Transaction Processing over XML) Benchmark Result

http://tpox.sourceforge.net/

Overview:

Sponsor:	Intel® Corporation		
Date:	April 2011		
Database System:	DB2 9.7		
Operating System:	SUSE Linux* Enterprise server 10 SP2		
Hardware Summary:	Inte® Xeon® Processor E7-4870 server with 256GB RAM		
TPoX Version:	2.0	**TPoX Scale Factor:**	M - 1TB

Primary Result:

TTPS (TPoX Transactions Per Second):	17,757
Number of concurrent users:	440

Secondary Results (optional):

TIPS (TPoX Inserts Per Second):	Custacc:		Users
	Orders:		Users
TQPS (TPoX Queries Per Second):			Users
Initial database size (incl. indexes, etc.):	537 GB (using DB2 data compression)		

System under test (database server):

Processors: Intel Xeon Processor E7-4870, 4 processors/40 cores/80 threads, 2.40 GHz, 32KB DL1 cache per core, 32KB IL1 cache per core, 256 KB L2 cache per core, 30 MB L3 cache per processor			
Memory:	256GB	**Client/server network:**	1 Gb/s ethernet
Storage system:	4 EONSTOR B12F-G1430	**Total no. of disks:**	54
#disks for database:	48 (RAID 0)	**#disks for log**	6 (RAID 0)
Adapters:	1 QLE2464 Qlogic Fiber Channel 4 Gb/s adapter		
Other details:	All disks are Intel® X-25E Extreme SATA Solid-State drives		

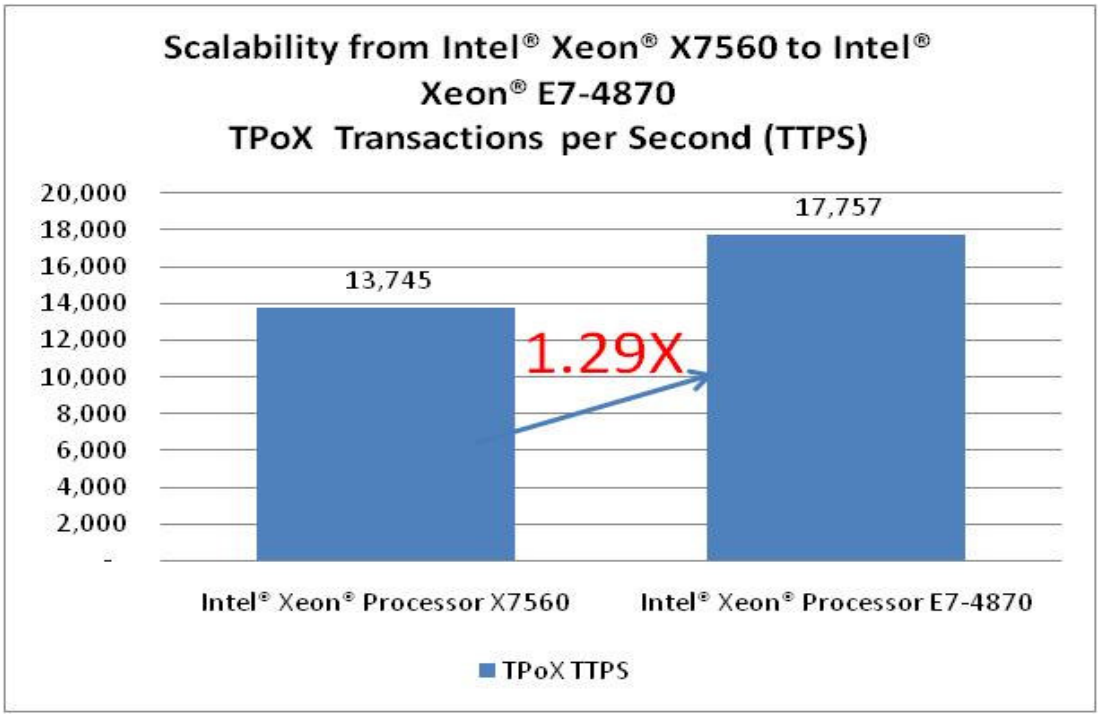
Client machine (if applicable):

Machine type, OS:	Intel Xeon Processor E5440 EP Server, Linux SLES 10 SP2		
Number of CPUs:	2	**Cores per CPU:**	4
Clock Frequency:	2.83 GHz	**Client/server network:**	1 Gb/s ethernet
Memory:	24 GB	**Java Level:**	1.6

Other key TPoX Workload Driver parameters used to obtain the TTPS result:

-r (ramp up time):	3600 seconds	**-ti (measurement time):**	3600 seconds
-tt (think time):	0 (default)	**-cc (commit count)**	1 (default)
-tr (max transactions):	n/a		
Other non-default parameters:			

Section for additional details, comments, graphs, or comparison to other systems.



Testing and results generated by Intel engineers in Intel labs, with IBM collaboration

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