

Intel® RAID Controllers

SRCSASJV, SRCSASBB8I, SRCSASLS4I, SRCSATAWB

Performance Brief

Revision 3.1
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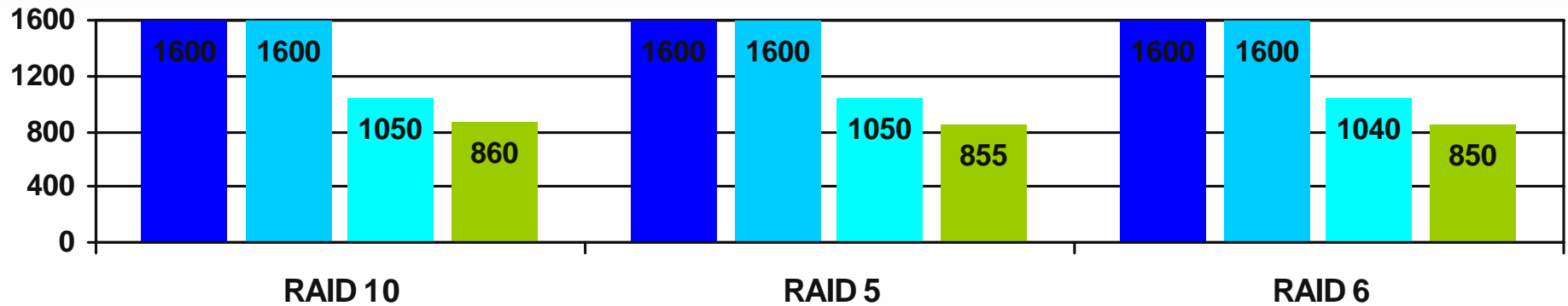
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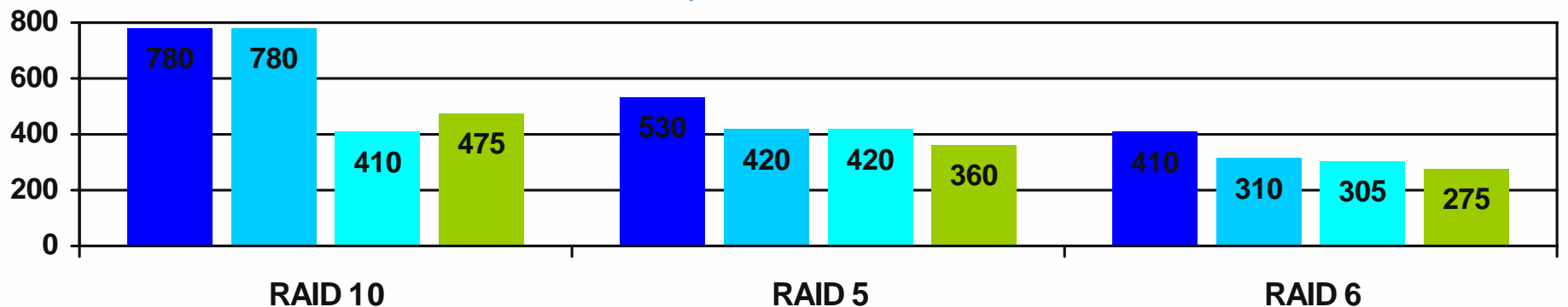


Performance - Maximum Bandwidth

Sequential Read, MB/s



Sequential Write, MB/s



■ SRC SAS JV

■ SRC SAS BB8I

■ SRC SAS LS4I

■ SRC SATA WB

**Industry leading read performance across all RAID levels!
Industry leading RAID 10 performance – read and write!**

Data source: Intel internally measured results as of 23 May 2008. See 'Test Configurations' slide for test configuration details.

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Test Configurations

RAID Settings:

Strip Size = 1MB (except 256 KB for RAID 5/6 on SRCSATAWB and on SRCSASLS4I)
Write Policy: Write Back, except for Write Thru with RAID 10 on SRCSASJV and on SRCSASBB8I
Disk Cache Disabled, No Read Ahead, Direct IO

IOmeter Settings: Outstanding IOs: 32; Block Size: 1 MB; 5 sec ramp; 60 sec test run

Software and Firmware:

RAID firmware ver. 1.12.102-420; RAID driver ver. 2.20.0.64; Windows* 2003 R2 64-bit ; IOmeter ver 7.26.2006

System Hardware:

Intel® Server Board S5400SF; Single Intel® Xeon® Processor 5150; 2 GB RAM;

SRCSASJV (512 MB cache), SRCSASBB8I – HDD configuration:

16 x SAS HDDs (Seagate Cheetah 15K.5 ST3300655SS):
- 4 expander backplanes AXX4DRV3GEXP with 4 drives each
- each backplane connected to two ports on the RAID controller

SRCSASLS4I – HDD configuration:

16 x SAS HDDs (Seagate Cheetah 15K.5 ST3300655SS):
- 4 expander backplanes AXX4DRV3GEXP with 4 drives each
- each backplane connected to one port on the RAID controller

SRCSATAWB – HDD Configuration:

16 x SATA HDDs (Seagate Barracuda ES.2 ST31000340NS):
- 4 expander backplanes AXX4DRV3GEXP with 4 drives each
- each backplane connected to two ports on the RAID controller