

RocketRAID 2314
SD/HD Performance Benchmarks

PC: Power Mac G5
OS: MacOS X-10.4.8
Host Adapter: RR2314 V1.14
HD: WD150G * 4
Benchmark: AJA
Date: 02-14-2007

AJA test results:

RAID0-4 disks Performance



AJA KONA System Test

AJA

Test: Disk Read/Write

Start

RAID0*4/DiskWhackTest - 1024.0 MB

Write: 324.1 MB/s
Read: 301.9 MB/s

Options

Volume: RAID0*4 File Size: 1.0 GB

Video Frame Size: DVCPProHD 1080i60 Disable file system cache
 Simultaneous KONA DMA

Graph Text

AJA KONA System Test

AJA

Test: Disk Read/Write

Start

RAID0*4/DiskWhackTest - 1024.0 MB

Write: 332.3 MB/s
Read: 293.1 MB/s

Options

Volume: RAID0*4 File Size: 1.0 GB

Video Frame Size: DVCPProHD 1080i50 Disable file system cache
 Simultaneous KONA DMA

Graph Text

AJA KONA System Test

AJA

Test: Disk Read/Write

Start

RAID0*4/DiskWhackTest - 1024.0 MB

Write: 322.0 MB/s
Read: 325.6 MB/s

Options

Volume: RAID0*4 File Size: 1.0 GB

Video Frame Size: DVCPProHD 720p60 Disable file system cache
 Simultaneous KONA DMA

Graph Text

AJA KONA System Test

AJA

Test: Disk Read/Write

Start

RAID0*4/DiskWhackTest - 1024.0 MB

Write: 324.5 MB/s
Read: 302.6 MB/s

Options

Volume: RAID0*4 File Size: 1.0 GB

Video Frame Size: 2048x1556 10-bit RGB Disable file system cache
 Simultaneous KONA DMA

Graph Text

AJA KONA System Test

AJA

Test: Disk Read/Write

Start

RAID0*4/DiskWhackTest - 1024.0 MB

Write: 316.5 MB/s
Read: 294.2 MB/s

Options

Volume: RAID0*4

File Size: 1.0 GB

Video Frame Size: 1920x1080 10-bit

Disable file system cache
 Simultaneous KONA DMA

Graph Text

AJA KONA System Test

AJA

Test: Disk Read/Write

Start

RAID0*4/DiskWhackTest - 1024.0 MB

Write: 317.8 MB/s
Read: 256.3 MB/s

Options

Volume: RAID0*4

File Size: 1.0 GB

Video Frame Size: 1920x1080 10-bit RGB

Disable file system cache
 Simultaneous KONA DMA

Graph Text

AJA KONA System Test

AJA

Test: Disk Read/Write

Start

RAID0*4/DiskWhackTest - 1024.0 MB

Write: 325.2 MB/s
Read: 290.6 MB/s

Options

Volume: RAID0*4 File Size: 1.0 GB

Video Frame Size: 1920x1080 8-bit Disable file system cache
 Simultaneous KONA DMA

Graph Text

AJA KONA System Test

AJA

Test: Disk Read/Write

Start

RAID0*4/DiskWhackTest - 1024.0 MB

Write: 305.3 MB/s
Read: 289.6 MB/s

Options

Volume: RAID0*4 File Size: 1.0 GB

Video Frame Size: 1280x720 10-bit Disable file system cache
 Simultaneous KONA DMA

Graph Text

AJA KONA System Test

AJA

Test: Disk Read/Write

Start

RAID0*4/DiskWhackTest - 1024.0 MB

Write: 329.0 MB/s
Read: 311.2 MB/s

Options

Volume: RAID0*4

File Size: 1.0 GB

Video Frame Size: 1280x720 8-bit

Disable file system cache
 Simultaneous KONA DMA

Graph Text

AJA KONA System Test

AJA

Test: Disk Read/Write

Start

RAID0*4/DiskWhackTest - 1024.0 MB

Write: 325.5 MB/s
Read: 291.1 MB/s

Options

Volume: RAID0*4

File Size: 1.0 GB

Video Frame Size: 720x576 10-bit

Disable file system cache
 Simultaneous KONA DMA

Graph Text

AJA KONA System Test

AJA

Test: Disk Read/Write

Start

RAID0*4/DiskWhackTest - 1024.0 MB

Write: 324.1 MB/s
Read: 299.3 MB/s

Options

Volume: RAID0*4 File Size: 1.0 GB

Video Frame Size: 720x486 8-bit Disable file system cache
 Simultaneous KONA DMA

Graph **Text**

AJA KONA System Test

AJA

Test: Disk Read/Write

Start

RAID0*4/DiskWhackTest - 1024.0 MB

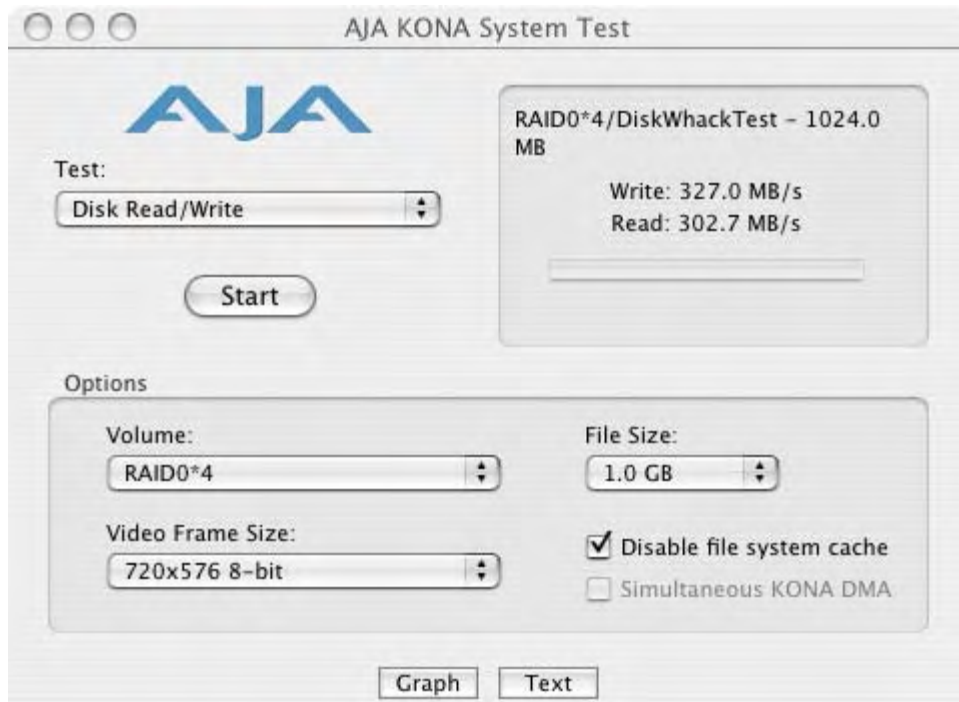
Write: 322.5 MB/s
Read: 289.4 MB/s

Options

Volume: RAID0*4 File Size: 1.0 GB

Video Frame Size: 720x486 10-bit Disable file system cache
 Simultaneous KONA DMA

Graph **Text**



RAID5-4 disks Performance

The image displays two screenshots of the AJA KONA System Test application, showing performance results for RAID5-4 disks. Both screenshots use the 'Disk Read/Write' test with a 1.0 GB file size and 'Disable file system cache' checked. The top screenshot uses 'PAL DV25' video frame size, while the bottom screenshot uses 'NTSC DV25'.

Top Screenshot (PAL DV25):

- Test: Disk Read/Write
- Volume: RAID5*4
- File Size: 1.0 GB
- Video Frame Size: PAL DV25
- Options: Disable file system cache, Simultaneous KONA DMA
- RAID5*4/DiskWhackTest - 1024.0 MB
- Write: 248.3 MB/s
- Read: 207.2 MB/s

Bottom Screenshot (NTSC DV25):

- Test: Disk Read/Write
- Volume: RAID5*4
- File Size: 1.0 GB
- Video Frame Size: NTSC DV25
- Options: Disable file system cache, Simultaneous KONA DMA
- RAID5*4/DiskWhackTest - 1024.0 MB
- Write: 220.7 MB/s
- Read: 183.0 MB/s

AJA KONA System Test

AJA

Test: Disk Read/Write

Start

RAID5*4/DiskWhackTest - 1024.0 MB

Write: 229.3 MB/s
Read: 234.3 MB/s

Options

Volume: RAID5*4 File Size: 1.0 GB

Video Frame Size: DVCPProHD 1080i60 Disable file system cache
 Simultaneous KONA DMA

Graph **Text**

AJA KONA System Test

AJA

Test: Disk Read/Write

Start

RAID5*4/DiskWhackTest - 1024.0 MB

Write: 235.1 MB/s
Read: 240.6 MB/s

Options

Volume: RAID5*4 File Size: 1.0 GB

Video Frame Size: DVCPProHD 720p60 Disable file system cache
 Simultaneous KONA DMA

Graph **Text**

AJA KONA System Test

AJA

Test: Disk Read/Write

Start

RAID5*4/DiskWhackTest - 1024.0 MB

Write: 228.1 MB/s
Read: 224.0 MB/s

Options

Volume: RAID5*4

File Size: 1.0 GB

Video Frame Size: DVCPProHD 1080i50

Disable file system cache
 Simultaneous KONA DMA

Graph Text

AJA KONA System Test

AJA

Test: Disk Read/Write

Start

RAID5*4/DiskWhackTest - 1024.0 MB

Write: 227.3 MB/s
Read: 227.8 MB/s

Options

Volume: RAID5*4

File Size: 1.0 GB

Video Frame Size: 2048x1556 10-bit RGB

Disable file system cache
 Simultaneous KONA DMA

Graph Text

AJA KONA System Test

AJA

Test: Disk Read/Write

Start

RAID5*4/DiskWhackTest - 1024.0 MB

Write: 227.4 MB/s
Read: 233.1 MB/s

Options

Volume: RAID5*4

File Size: 1.0 GB

Video Frame Size: 1920x1080 10-bit

Disable file system cache
 Simultaneous KONA DMA

Graph Text

AJA KONA System Test

AJA

Test: Disk Read/Write

Start

RAID5*4/DiskWhackTest - 1024.0 MB

Write: 220.6 MB/s
Read: 218.8 MB/s

Options

Volume: RAID5*4

File Size: 1.0 GB

Video Frame Size: 1920x1080 10-bit RGB

Disable file system cache
 Simultaneous KONA DMA

Graph Text

AJA KONA System Test

AJA

Test: Disk Read/Write

Start

RAID5*4/DiskWhackTest - 1024.0 MB

Write: 228.6 MB/s
Read: 218.0 MB/s

Options

Volume: RAID5*4 File Size: 1.0 GB

Video Frame Size: 1920x1080 8-bit Disable file system cache
 Simultaneous KONA DMA

Graph **Text**

AJA KONA System Test

AJA

Test: Disk Read/Write

Start

RAID5*4/DiskWhackTest - 1024.0 MB

Write: 228.6 MB/s
Read: 228.6 MB/s

Options

Volume: RAID5*4 File Size: 1.0 GB

Video Frame Size: 1280x720 10-bit Disable file system cache
 Simultaneous KONA DMA

Graph **Text**

AJA KONA System Test

AJA

Test: Disk Read/Write

Start

RAID5*4/DiskWhackTest - 1024.0 MB

Write: 227.7 MB/s
Read: 237.9 MB/s

Options

Volume: RAID5*4 File Size: 1.0 GB

Video Frame Size: 720x486 8-bit Disable file system cache
 Simultaneous KONA DMA

Graph **Text**

AJA KONA System Test

AJA

Test: Disk Read/Write

Start

RAID5*4/DiskWhackTest - 1024.0 MB

Write: 231.5 MB/s
Read: 217.2 MB/s

Options

Volume: RAID5*4 File Size: 1.0 GB

Video Frame Size: 720x486 10-bit Disable file system cache
 Simultaneous KONA DMA

Graph **Text**

AJA KONA System Test

AJA

Test: Disk Read/Write

Start

RAID5*4/DiskWhackTest - 1024.0 MB

Write: 233.0 MB/s
Read: 224.6 MB/s

Options

Volume: RAID5*4 File Size: 1.0 GB

Video Frame Size: 720x576 8-bit Disable file system cache
 Simultaneous KONA DMA

Graph Text

AJA KONA System Test

AJA

Test: Disk Read/Write

Start

RAID5*4/DiskWhackTest - 1024.0 MB

Write: 230.7 MB/s
Read: 224.9 MB/s

Options

Volume: RAID5*4 File Size: 1.0 GB

Video Frame Size: 720x576 10-bit Disable file system cache
 Simultaneous KONA DMA

Graph Text

