

HD Tune Pro 5.00 - Hard Disk Utility (trial version)

File Help

WDC WD20EARS-00MVWB0 (2000 GB) 37°C

File Benchmark Disk monitor AAM Random Access Extra tests

Benchmark Info Health Error Scan Folder Usage Erase

Volume	Capacity	Free	Usage	File system	Serial	Alignment
Volume (R:)	1907726 MB	1907603 MB	0%	NTFS	70B1-2716	0.5 KB

Supported features

- ☒ S.M.A.R.T.
- ☒ 48-bit Address
- ☒ Read Look-Ahead
- ☒ Write Cache
- ☒ Host Protected Area
- ☒ Device Configuration Overlay
- ☒ Firmware Upgradable
- ☒ Security Mode
- ☐ Automatic Acoustic Management
- ☐ Power Management
- ☐ Advanced Power Management
- ☐ Interface Power Management
- ☐ Power-up in Standby
- ☐ SCT Tables
- ☐ Native Command Queuing (NCQ)
- ☐ TRIM

Firmware version: 51.0AB51
Serial number: WD-WCAZAA335486
Capacity: 2000.4 GB (1863.0 GB)
Buffer: n/a
Sector size: 512 bytes

Standard: ATA8-ACS - SATA II
Supported: UDMA Mode 6
Active: UDMA Mode 6
Average speed: 75 MB/s
Rotation speed: -

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Volume	Capacity	Free	Usage	File system	Serial	Alignment
Volume (R:)	1907726 MB	1907603 MB	0%	NTFS	5464-A783	0.5 KB

Supported features

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- ☒ 48-bit Address
- ☒ Read Look-Ahead
- ☒ Write Cache
- ☒ Host Protected Area
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Test	I/O	Time	Transfer
<input checked="" type="checkbox"/> Random seek	48 IOPS	20.682 ms	0.024 MB/s
<input checked="" type="checkbox"/> Random seek 4 KB	64 IOPS	15.710 ms	0.249 MB/s
<input checked="" type="checkbox"/> Butterfly seek	55 IOPS	18.161 ms	0.027 MB/s
<input checked="" type="checkbox"/> Random seek / size 64 KB	61 IOPS	16.368 ms	0.939 MB/s
<input checked="" type="checkbox"/> Random seek / size 8 MB	13 IOPS	78.298 ms	51.788 MB/s
<input checked="" type="checkbox"/> Sequential outer	1654 IOPS	0.605 ms	103.348 MB/s
<input checked="" type="checkbox"/> Sequential middle	1194 IOPS	0.837 ms	74.642 MB/s
<input checked="" type="checkbox"/> Sequential inner	703 IOPS	1.423 ms	43.926 MB/s
<input checked="" type="checkbox"/> Burst rate	1335 IOPS	0.749 ms	83.413 MB/s

Start

Read Write

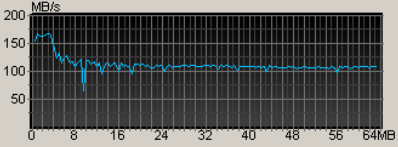
Short stroke

40 GB

4 KB align

Progress: 100%

☒ Cache



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Test	I/O	Time	Transfer
<input checked="" type="checkbox"/> Random seek	48 IOPS	20.800 ms	0.023 MB/s
<input checked="" type="checkbox"/> Random seek 4 KB	61 IOPS	16.388 ms	0.238 MB/s
<input checked="" type="checkbox"/> Butterfly seek	57 IOPS	17.540 ms	0.028 MB/s
<input checked="" type="checkbox"/> Random seek / size 64 KB	60 IOPS	16.641 ms	0.924 MB/s
<input checked="" type="checkbox"/> Random seek / size 8 MB	12 IOPS	81.546 ms	49.725 MB/s
<input checked="" type="checkbox"/> Sequential outer	1740 IOPS	0.575 ms	108.744 MB/s
<input checked="" type="checkbox"/> Sequential middle	1228 IOPS	0.814 ms	76.778 MB/s
<input checked="" type="checkbox"/> Sequential inner	704 IOPS	1.420 ms	44.028 MB/s
<input checked="" type="checkbox"/> Burst rate	2954 IOPS	0.338 ms	184.640 MB/s

Start

Read Write

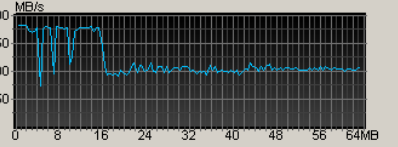
Short stroke

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4 KB align

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Test	I/O	Time	Transfer
<input checked="" type="checkbox"/> Random seek	74 IOPS	13.430 ms	0.036 MB/s
<input checked="" type="checkbox"/> Random seek 4 KB	114 IOPS	8.736 ms	0.447 MB/s
<input checked="" type="checkbox"/> Butterfly seek	47 IOPS	21.213 ms	0.023 MB/s
<input checked="" type="checkbox"/> Random seek / size 64 KB	40 IOPS	24.880 ms	0.618 MB/s
<input checked="" type="checkbox"/> Random seek / size 8 MB	11 IOPS	89.047 ms	45.537 MB/s
<input checked="" type="checkbox"/> Sequential outer	1752 IOPS	0.571 ms	109.522 MB/s
<input checked="" type="checkbox"/> Sequential middle	1104 IOPS	0.905 ms	69.031 MB/s
<input checked="" type="checkbox"/> Sequential inner	693 IOPS	1.444 ms	43.284 MB/s
<input checked="" type="checkbox"/> Burst rate	1641 IOPS	0.609 ms	102.579 MB/s

Start

Read Write

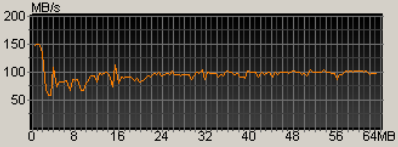
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Test	I/O	Time	Transfer
<input checked="" type="checkbox"/> Random seek	74 IOPS	13.469 ms	0.036 MB/s
<input checked="" type="checkbox"/> Random seek 4 KB	37 IOPS	26.909 ms	0.145 MB/s
<input checked="" type="checkbox"/> Butterfly seek	48 IOPS	20.730 ms	0.024 MB/s
<input checked="" type="checkbox"/> Random seek / size 64 KB	42 IOPS	23.947 ms	0.642 MB/s
<input checked="" type="checkbox"/> Random seek / size 8 MB	11 IOPS	90.276 ms	44.917 MB/s
<input checked="" type="checkbox"/> Sequential outer	1740 IOPS	0.575 ms	108.743 MB/s
<input checked="" type="checkbox"/> Sequential middle	1153 IOPS	0.867 ms	72.067 MB/s
<input checked="" type="checkbox"/> Sequential inner	697 IOPS	1.435 ms	43.564 MB/s
<input checked="" type="checkbox"/> Burst rate	2503 IOPS	0.400 ms	156.422 MB/s

Start

Read Write

Short stroke

40 GB

4 KB align

Progress: 100%

☒ Cache

