

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

File Help

WDC WD20EFRX-68AX9N0 (2000 gB) 35°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 (G:)	1907599 MB	1907412 MB	0%	NTFS	783D-516F	1 MB

Supported features

<input checked="" type="checkbox"/> S.M.A.R.T	<input type="checkbox"/> Automatic Acoustic Management
<input checked="" type="checkbox"/> 48-bit Address	<input checked="" type="checkbox"/> Power Management
<input checked="" type="checkbox"/> Read Look-Ahead	<input type="checkbox"/> Advanced Power Management
<input checked="" type="checkbox"/> Write Cache	<input checked="" type="checkbox"/> Interface Power Management
<input checked="" type="checkbox"/> Host Protected Area	<input checked="" type="checkbox"/> Power-up in Standby
<input checked="" type="checkbox"/> Device Configuration Overlay	<input checked="" type="checkbox"/> SCT Tables
<input checked="" type="checkbox"/> Firmware Upgradable	<input checked="" type="checkbox"/> Native Command Queuing (NCQ)
<input checked="" type="checkbox"/> Security Mode	<input type="checkbox"/> TRIM

Firmware version:	80.00A80	Standard:	ACS-2 - SATA III
Serial number:	WD-WMC300206671	Supported:	UDMA Mode 6
Capacity:	2000.4 gB (1863.0 GB)	Active:	UDMA Mode 6
Buffer:	n/a	Average speed:	108 MB/s
Sector size	512 bytes	Rotation speed:	-

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ID	Current	Worst	Threshold	Data	Status
(01) Raw Read Error Rate	200	200	51	0	ok
(03) Spin Up Time	178	176	21	4083	ok
(04) Start/Stop Count	100	100	0	9	ok
(05) Reallocated Sector Count	200	200	140	0	ok
(07) Seek Error Rate	100	253	0	0	ok
(09) Power On Hours Count	100	100	0	2	ok
(0A) Spin Retry Count	100	253	0	0	ok
(0B) Calibration Retry Count	100	253	0	0	ok
(0C) Power Cycle Count	100	100	0	9	ok
(C0) Unsafe Shutdown Count	200	200	0	7	ok
(C1) Load Cycle Count	200	200	0	1	ok
(C2) Temperature	112	111	0	35	ok
(C4) Reallocated Event Count	200	200	0	0	ok
(C5) Current Pending Sector	200	200	0	0	ok
(C6) Offline Uncorrectable	100	253	0	0	ok
(C7) Ultra DMA CRC Error Count	200	200	0	0	ok
(C8) Write Error Rate	100	253	0	0	ok

Description: **Number of damaged sectors which have been replaced: 0**
Status: **ok**



Health status: **ok** Next update: **0:58**



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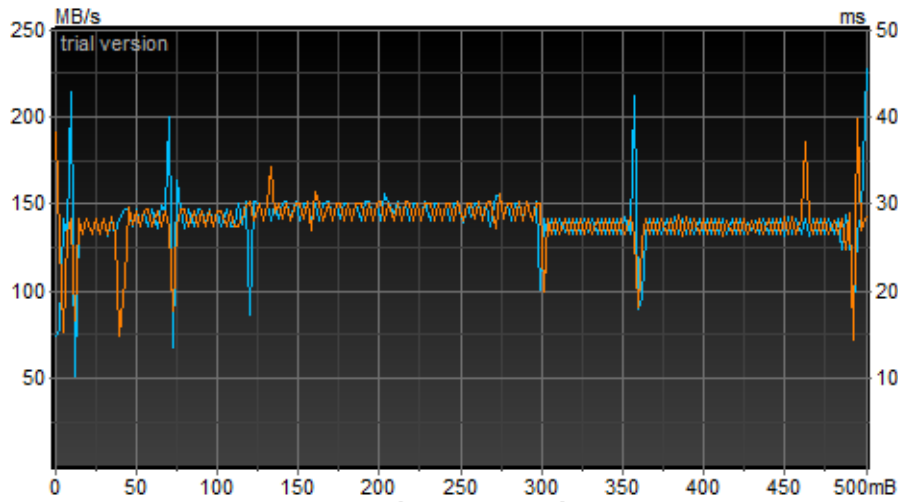
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Transfer speed

Start



Drive

G:

File length

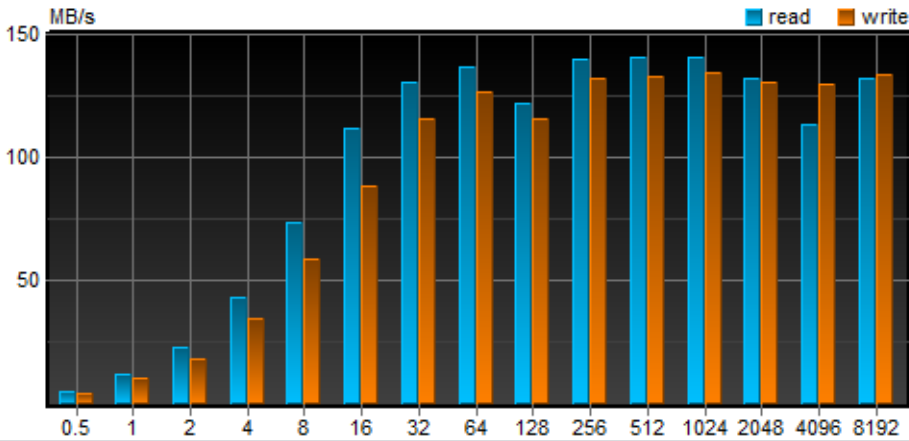
500 MB

Data pattern

Zero

	Read	Write
Sequential	138492 KB/s	139280 KB/s
4 KB random single	142 IOPS	593 IOPS
4 KB random multi <input type="text" value="32"/>	265 IOPS	565 IOPS

Block size measurement



File length

64 MB

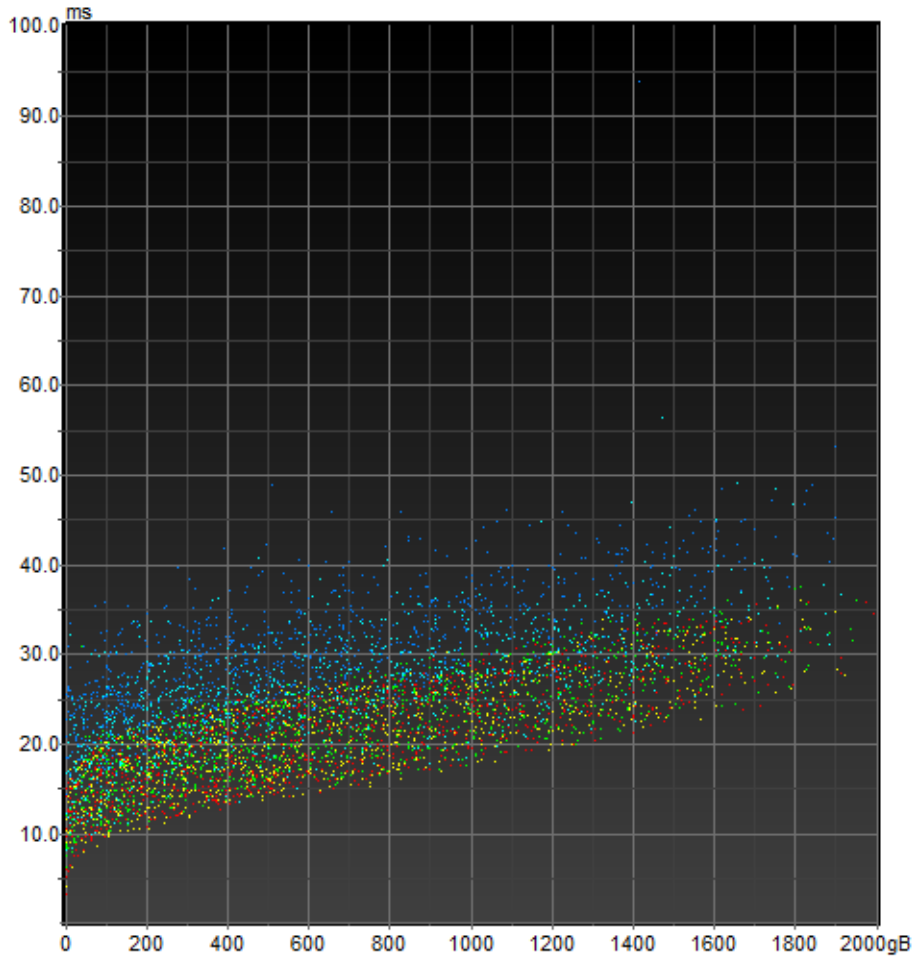
Delay

0

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Start

Read
 Write

Short stroke

40 gB

4 KB align

transfer size	operations / sec	avg. access time	max. access time	avg. speed
<input checked="" type="checkbox"/> 512 bytes	49 IOPS	20.378 ms	35.788 ms	0.024 MB/s
<input checked="" type="checkbox"/> 4 KB	48 IOPS	20.651 ms	35.607 ms	0.189 MB/s
<input checked="" type="checkbox"/> 64 KB	46 IOPS	21.641 ms	37.467 ms	2.888 MB/s
<input checked="" type="checkbox"/> 1 MB	32 IOPS	30.418 ms	93.634 ms	32.874 MB/s
<input checked="" type="checkbox"/> Random	39 IOPS	25.453 ms	56.164 ms	19.934 MB/s

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Test	I/O	Time	Transfer
<input checked="" type="checkbox"/> Random seek	50 IOPS	20.096 ms	0.024 MB/s
<input checked="" type="checkbox"/> Random seek 4 KB	50 IOPS	19.923 ms	0.196 MB/s
<input checked="" type="checkbox"/> Butterfly seek	43 IOPS	23.124 ms	0.021 MB/s
<input checked="" type="checkbox"/> Random seek / size 64 KB	48 IOPS	20.703 ms	0.743 MB/s
<input checked="" type="checkbox"/> Random seek / size 8 MB	16 IOPS	61.496 ms	65.938 MB/s
<input checked="" type="checkbox"/> Sequential outer	2244 IOPS	0.446 ms	140.260 MB/s
<input checked="" type="checkbox"/> Sequential middle	1730 IOPS	0.578 ms	108.130 MB/s
<input checked="" type="checkbox"/> Sequential inner	1016 IOPS	0.984 ms	63.493 MB/s
<input checked="" type="checkbox"/> Burst rate	3081 IOPS	0.325 ms	192.569 MB/s

Cache

Start

- Read
- Write

Short stroke
40 GB

4 KB align

Progress: 100%

