

Windows Server 2022

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winsat

diskspd PowerShell

? ? WinSAT?????

WinSAT Windows System Assessment Tool Windows

1?? ?

```
winsat disk -drive c
```

- -drive c C
- Sequential Read Sequential Write Random Read Random Write

2?? ?

```
winsat disk -seq -read -drive c
```

3?? ?

```
winsat disk -seq -write -drive c
```

4?? ?

```
winsat disk -ran -read -drive c  
winsat disk -ran -write -drive c
```

??

- 4K
- 30%

PowerShell

```
del c:\testfile.dat
```

PowerShell

PowerShell

```
#
Measure-Command { fsutil file createnew C:\speedtest.tmp 1073741824 }

#
Measure-Command { Get-Content C:\speedtest.tmp | Out-Null }
```

- 1GB
-

```
$size = 1GB
$time = (Measure-Command { fsutil file createnew C:\speedtest.tmp 1073741824
}).TotalSeconds
"$([math]::Round($size / $time / 1MB,2)) MB/s"
```

Performance

		SATA SSD
Sequential Read		400-550 MB/s
Sequential Write		300-500 MB/s
Random Read 4K		20-50 MB/s
Random Write 4K		20-40 MB/s
IOPS		

PowerShell

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