



Command Line Guide

Updated December 13, 2017 for use with
PCMark 8 Professional Edition v2.8.704

Usage

Run the program from a command line that was started as an administrator, (right-click on the *cmd* shortcut, and select *Run as Administrator*).

PCMark8Cmd.exe [options]



[PCMark 8 Professional Edition](#) license required for command line use.

Options

Command	Description
<code>--home [=on =off =n[,m]]</code>	Run Home test or individual Home workload(s) (default off).
<code>--creative [=on =off =n[,m]]</code>	Run Creative test or individual Creative workload(s) (default off).
<code>--work [=on =off =n[,m]]</code>	Run Work test or individual Work workload(s) (default off).
<code>--storage [=on =off =n[,m]]</code>	Run Storage test or individual Storage workload(s) (default off).
<code>--expandedstorage [=on =1 =2 =off]</code>	Run Expanded Storage tests. =1 run Consistency test only =2 run Adaptivity test only
<code>--creativesuite [=on =off =n[,m]]</code>	Run Adobe Creative Suite test or individual Adobe Creative Suite workload(s) (default off). [Requires Adobe CS6 or Adobe Creative Cloud]
<code>--office [=on =off =n[,m]]</code>	Run Microsoft Office test or individual Microsoft Office workload(s) (default off). [Requires MS Office 2010 or later]
<code>--pass [=n]</code>	Set the number of passes for the test (default n=3).
<code>--storagepath [= <path> \\.\PhysicalDriveX]</code>	= <path> The path to run Storage test on, such as D:\ \\.\PhysicalD The device to be tested with the Expanded Storage tests where X is the disk number from Disk Management or diskpart.exe (command "list disk"). See setup notes below.
<code>--systeminfo [=on =off]</code>	Collect SystemInfo (default on).
<code>--systeminfomonitor [=on =off]</code>	Enable SystemInfo Monitoring (default off)

<code>--enablehardwaremfts [=on =off]</code>	Use hardware MFTs (default on).
<code>--compute [=accelerated conventional]</code>	Select usage logic of OpenCL devices (default accelerated)
<code>--openc11device=<off <deviceid>></code>	Select OpenCL 1.1 device (default auto).
<code>--openc12device=<off <deviceid>></code>	Select OpenCL 1.2 device (default auto).
<code>--battery1ife [=on =off]</code>	Enable Battery Life mode (default off).
<code>--verbose</code>	Enables verbose logging for troubleshooting.
<code>--randomdata=off</code>	Turns off random data for write operations during Storage and Extended Storage tests. The default setting is to write random, non-compressible data (default off).
<code>--in=<file.pcmark-8-result></code>	Load results from the file (only for submitting or exporting). If no path is specified, loads the file from My Documents/PCMark 8/
<code>--out=<file.pcmark-8-result></code>	Save results in the file.
<code>--export=<file.xml></code> <code>--export-pdf=<file.pdf></code>	Export results to the XML file. Export results to a PDF file. If no path is specified, the exported file is placed in My Documents/PCMark 8/
<code>--view</code>	View results.
<code>--register=<product key></code>	Register PCMark 8 with the given key.
<code>--unregister</code>	Unregister PCMark 8.
<code>PCMark8-setup.exe /quiet /install</code>	

<code>--testversion=<1.0.0 1.1.0 2.0.0 3.0.0></code>	Version number of the test to run. Defaults to latest version.
<code>--custom=<benchmark.xml></code>	Run a custom Storage Consistency test. See the PCMark 8 Storage Consistency Customization Guide for details.

Prepare a drive for Expanded Storage tests

PCMark 8 Expanded Storage tests can only be run on a completely clean drive. To protect against accidental data loss, PCMark 8 will refuse to run the Expanded Storage tests on a disk that has partitions defined in the partition table. To clean and prepare a drive for the Expanded Storage tests:

- Run `DISKPART` from an elevated (admin) command line
- Type `list disk`
- Type `select disk n`, where `n` is the number of the disk to test
- Type `clean` to fully erase the drive
- Exit `DISKPART`

Tests

Individual tests can be run by specifying the test number. For example, to run only the *Advanced Photo Editing* (4) and *Casual Gaming* (6) workloads from the Home benchmark:

```
PCMark8Cmd.exe --home=4,6 --out=myresults.pcmak-8-result
```



Refer to the [PCMark 8 Technical Guide](#) for the version history of each test.

Home v3.0.0

1. Web Browsing – JunglePin
2. Web Browsing – Amazonia
3. Writing
4. Photo Editing v2
5. Video Chat v2
6. Casual Gaming

Home v2.0.0

1. Web Browsing – JunglePin
2. Web Browsing – Amazonia
3. Writing
4. Photo Editing
5. Video Chat
6. Casual Gaming

Creative v3.0.0

1. Web Browsing – JunglePin
2. Web Browsing – Amazonia
3. Video Group Chat v2
4. Photo Editing v2
5. Batch Photo Editing v2
6. Video Editing part 1 v2
7. Video Editing part 2 v2
8. Mainstream Gaming part 1
9. Mainstream Gaming part 2
10. Video To Go part 1
11. Video To Go part 2
12. Music To Go

Creative v2.0.0

1. Web Browsing – JunglePin
2. Web Browsing – Amazonia
3. Video Group Chat
4. Photo Editing
5. Batch Photo Editing
6. Video Editing part 1
7. Video Editing part 2
8. Mainstream Gaming part 1
9. Mainstream Gaming part 2
10. Video To Go part 1
11. Video To Go part 2
12. Music To Go

Work v2.0.0

1. Web Browsing - JunglePin
2. Web Browsing – Amazonia
3. Writing
4. LibreOffice Calc
5. Video Chat v2

Work v1.0.0

1. Web Browsing – JunglePin
2. Web Browsing – Amazonia
3. Writing

Adobe Creative Suite v1.0.0

1. Adobe Photoshop light
2. Adobe Photoshop heavy
3. Adobe InDesign
4. Adobe After Effects
5. Adobe Illustrator

Microsoft Office v1.0.0

1. Microsoft Word
2. Microsoft Excel
3. Microsoft PowerPoint

Storage v1.0.0

1. Storage - World of Warcraft
2. Storage - Battlefield 3
3. Storage - Adobe Photoshop light
4. Storage - Adobe Photoshop heavy
5. Storage - Adobe InDesign
6. Storage - Adobe After Effects
7. Storage - Adobe Illustrator
8. Storage - Microsoft Word
9. Storage - Microsoft Excel
10. Storage - Microsoft PowerPoint

Expanded storage v1.1.0

1. Storage Consistency
2. Storage Adaptivity

Examples

Run Home benchmark test using OpenCL acceleration and save the result to myresults.pcmark-8-result:

```
PCMark8Cmd.exe --home=on --compute=accelerated  
--out=myresults.pcmark-8-result
```

Run only the storage test, targeting E:\ drive without scanning SystemInfo hardware configuration data and save results to myresults.pcmark-8-result:

```
PCMark8Cmd.exe --storage=on --storagepath=e:\ --systeminfo=off  
--out=myresults.pcmark-8-result
```

Run the Creative test with OpenCL 1.1 forced to use device id 0.1 and export the result to myresult.xml:

```
PCMark8Cmd.exe --creative=on --openc11device=0.1  
--export=myresult.xml
```

Run the Expanded Storage test on Disk 2:

```
PCMark8Cmd.exe --expandedstorage --storagepath=\\.\PhysicalDrive2
```

Sample scripts



Scripts (saved as .bat files) must be run with Administrator privileges.

Run PCMark 8 Creative in Accelerated mode

```
SET RESULTDIR=%CD%
pushd C:
cd "C:\Program Files\Futuremark\PCMark 8\bin"
Pcmark8Cmd.exe --creative --compute=accelerated
--out=%RESULTDIR%\pcmark_8_result.pcmak-8-result
popd
```

Run PCMark 8 Work, Home, and Creative in sequence in Conventional mode

```
SET RESULTDIR=%CD%
pushd C:
cd "C:\Program Files\Futuremark\PCMark 8\bin"
pcmark8cmd.exe --work --compute=conventional --systeminfo=on
--systeminfomonitor=on
--out=%RESULTDIR%\work-conventional.pcmak-8-result
pcmark8cmd.exe --home --compute=conventional --systeminfo=on
--systeminfomonitor=on
--out=%RESULTDIR%\home-conventional.pcmak-8-result
pcmark8cmd.exe --creative --compute=conventional --systeminfo=on
--systeminfomonitor=on
--out=%RESULTDIR%\creative-conventional.pcmak-8-result
popd
```

Exit codes

0	Success
200	Some unhandled exception
301	Registration key is invalid
302	Registration required
303	Professional or developer key required
401	PCMark 8 GUI already running
402	PCMark 8 Cmd already running
500	Parameter unknown
501	Tried to run more than one test
502	Systeminfo needed
503	Platform parameters value is not supported
504	Storage tech parameters value is not supported
601	Benchmark was canceled
602	Benchmark run failed with errors
701	Result file save error
702	Result export to XML failed
703	Result export to PDF failed
704	Result loading failed
1000	DirectX compatibility failed
1001	DirectX 9 not installed
1002	DirectX 11 not installed
1101	Adobe Illustrator not installed
1102	Adobe InDesign not installed
1103	Adobe After Effects not installed
1201	Microsoft IE10 not installed
1202	Microsoft Word not installed
1203	Microsoft Excel not installed
1204	Microsoft PowerPoint not installed