

DCPMM

Metrics List & Descriptions:

Technology /Category	Metric /Feature /Input	Name	Date Type	Format Example	Collectd Release	Collectd Plugin	Description	Dependencies	Limitations	Comments
Intel Optane DC Persistent Memory	Metric	total_bytes_read	Double	102912.00	None	dcpmm PR pending: https://github.com/collectd/collectd/pull/3274	Number of bytes transacted by the read operations			
Intel Optane DC Persistent Memory	Metric	total_bytes_written	Double	1592064.00	None	dcpmm PR pending: https://github.com/collectd/collectd/pull/3274	Number of bytes transacted by the write operations			
Intel Optane DC Persistent Memory	Metric	read_64B_ops_rcvd	Double	26484.00	None	dcpmm PR pending: https://github.com/collectd/collectd/pull/3274	Number of read operations performed to the physical media in 64 bytes granularity			
Intel Optane DC Persistent Memory	Metric	write_64B_ops_rcvd	Double	24876.00	None	dcpmm PR pending: https://github.com/collectd/collectd/pull/3274	Number of write operations performed to the physical media in 64 bytes granularity			
Intel Optane DC Persistent Memory	Metric	media_read_ops	Double	402.00	None	dcpmm PR pending: https://github.com/collectd/collectd/pull/3274	Number of read operations performed to the physical media			
Intel Optane DC Persistent Memory	Metric	media_write_ops	Double	6219.00	None	dcpmm PR pending: https://github.com/collectd/collectd/pull/3274	Number of write operations performed to the physical media			
Intel Optane DC Persistent Memory	Metric	host_reads	Double	54.00	None	dcpmm PR pending: https://github.com/collectd/collectd/pull/3274	Number of read operations received from the CPU (memory controller)			
Intel Optane DC Persistent Memory	Metric	host_writes	Double	17.00	None	dcpmm PR pending: https://github.com/collectd/collectd/pull/3274	Number of write operations received from the CPU (memory controller)			
Intel Optane DC Persistent Memory	Metric	read_hit_ratio	Double	0.75	None	dcpmm PR pending: https://github.com/collectd/collectd/pull/3274	Measures the efficiency of the buffer in the read path. Range of 0.0 - 1.0			
Intel Optane DC Persistent Memory	Metric	write_hit_ratio	Double	0.75	None	dcpmm PR pending: https://github.com/collectd/collectd/pull/3274	Measures the efficiency of the buffer in the write path. Range of 0.0 - 1.0			
Intel Optane DC Persistent Memory	Metric	health_status	Double	0.0	None	dcpmm PR pending: https://github.com/collectd/collectd/pull/3274	Overall health summary (0: normal 1: non-critical 2: critical 3: fatal)			
Intel Optane DC Persistent Memory	Metric	lifespan_remaining	Double	100.0	None	dcpmm PR pending: https://github.com/collectd/collectd/pull/3274	The module's remaining life as a percentage value of factory expected life span			
Intel Optane DC Persistent Memory	Metric	lifespan_used	Double	0.0	None	dcpmm PR pending: https://github.com/collectd/collectd/pull/3274	The module's used life as a percentage value of factory expected life span			
Intel Optane DC Persistent Memory	Metric	power_on_time	Double	1572553.5.0	None	dcpmm PR pending: https://github.com/collectd/collectd/pull/3274	The lifetime the DIMM has been powered on in seconds			
Intel Optane DC Persistent Memory	Metric	uptime	Double	15725.0	None	dcpmm PR pending: https://github.com/collectd/collectd/pull/3274	The current uptime of the DIMM for the current power cycle in seconds			
Intel Optane DC Persistent Memory	Metric	last_shutdown_time	Double	1572553.596.0	None	dcpmm PR pending: https://github.com/collectd/collectd/pull/3274	The time the system was last shutdown. The time is represented in epoch (seconds)			
Intel Optane DC Persistent Memory	Metric	media_temperature	Double	34.0	None	dcpmm PR pending: https://github.com/collectd/collectd/pull/3274	The media's current temperature in degrees Celsius			

Intel Optane DC Persistent Memory	Metric	controller_temperature	Double	35.0	None	dcpm PR pending: https://github.com/collectd/collectd/pull/3274	The controller's current temperature in degrees Celsius			
Intel Optane DC Persistent Memory	Metric	max_media_temperature	Double	35.0	None	dcpm PR pending: https://github.com/collectd/collectd/pull/3274	The media's the highest temperature reported in degrees Celsius			
Intel Optane DC Persistent Memory	Metric	max_controller_temperature	Double	35.0	None	dcpm PR pending: https://github.com/collectd/collectd/pull/3274	The controller's highest temperature reported in degrees Celsius			
Intel Optane DC Persistent Memory	Metric	tsc_cycles	Double	4589383816.00	None	dcpm PR pending: https://github.com/collectd/collectd/pull/3274	The number of tsc cycles during each interval			
Intel Optane DC Persistent Memory	Metric	epoch	Double	1572553604.00	None	dcpm PR pending: https://github.com/collectd/collectd/pull/3274	The timestamp in seconds at which the metrics are collected from DCPMM DIMMs			

Sub-Sections:

[Collectd DCPMM Plugin HLD](#)

[Collectd DCPMM Plugin Executed Tests](#)