

# Intel\_RDT

## Metrics List & Descriptions:

Technology /Category	Metric /Feature/Input	Name	Data Type	Format Example	Collected Release	Collected Plugin	Description	Dependencies	Limitations	Comments
Intel RDT	Metric	Memory Bandwidth on Local NUMA Node	Bytes /Second	3934325	5.7 & 5.8	intel_rdt	Memory bandwidth utilization by the relevant CPU core on the local NUMA memory channel	PQOS ToolSet	Does not provide the value per process basis due to lack of resctrl fs support	Dependent on PQOS toolset to read the metric value
Intel RDT	Metric	Memory Bandwidth on Remote NUMA Node	Bytes /Second	3934325	5.7 & 5.8	intel_rdt	Memory bandwidth utilization by the relevant CPU core on the remote NUMA memory channel	PQOS ToolSet	Does not provide the value per process basis due to lack of resctrl fs support	Dependent on PQOS toolset to read the metric value
Intel RDT	Metric	Total Memory Bandwidth	Bytes /Second	3934325	None	None	Total memory bandwidth utilized by a CPU core on local and remote NUMA memory channels	PQOS ToolSet	Does not provide the value per process basis due to lack of resctrl fs support	Not part of the Collectd plugin
Intel RDT	Metric	L3 Cache Occupancy	Bytes	45345434	5.7 & 5.8	intel_rdt	Total Last Level Cache occupancy by a CPU core	PQOS ToolSet	Does not provide the value per process basis due to lack of resctrl fs support	Dependent on PQOS toolset to read the metric value
Intel RDT	Metric	Instructions Per Cycle	Integer	23734	5.7 & 5.8	intel_rdt	Total instructions per cycle executed by a CPU core	PQOS ToolSet	None	Dependent on PQOS toolset to read the metric value
Intel RDT	Input	Cores	Integer Array	[0-12] or [1,2,3]	5.7 & 5.8	intel_rdt	The list of CPU core(s) to be provided as input by the user for which the corresponding metrics are required	None	None	Configuration input in the plugin .conf file
Intel RDT	Input	Configuration Interval	Integer	1 or 10	5.7 & 5.8	intel_rdt	The interval in seconds at which the metrics need to be collected	None	None	Configuration input in the plugin .conf file
Intel RDT	Metric	Memory Bandwidth of the process on Local NUMA Node	Bytes	3934325	5.10	intel_rdt	Memory bandwidth utilization by the relevant process on the local NUMA memory channel	resctrl fs & kernel 4.14	TBD	Still to create Collectd PR
Intel RDT	Metric	Memory Bandwidth of the process on Remote NUMA Node	Bytes	3934325	5.10	intel_rdt	Memory bandwidth utilization by the relevant process on the remote NUMA memory channel	resctrl fs & kernel 4.14	TBD	Still to create Collectd PR
Intel RDT	Metric	Total Memory Bandwidth of the process	Bytes	3934325	5.10	intel_rdt	Total memory bandwidth utilized by a process on local and remote NUMA memory channels	resctrl fs & kernel 4.14	TBD	Still to create Collectd PR
Intel RDT	Metric	L3 Cache Occupancy of the process	Bytes	45345434	5.10	intel_rdt	Total Last Level Cache occupancy by a process	resctrl fs & kernel 4.14	TBD	Still to create Collectd PR
Intel RDT	Metric	Instructions Per Cycle of the process	Integer	23734	5.10	intel_rdt	Total instructions per cycle executed by a process	resctrl fs & kernel 4.14	TBD	Still to create Collectd PR
Intel RDT	Input	Process List	Array	[qemu, pmd]	5.10	intel_rdt	List of processes for which metrics are to be collected	resctrl fs & kernel 4.14	TBD	Still to create Collectd PR

## Sub-sections:

[RDT Cache plugin High Level Design](#)

[RDT Cache Plugin Executed Tests](#)