Atitit 磁盘性能io监控 disk io perf monitor

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## 2、WMI中的 Win32\_PerfFormattedData\_PerfDisk\_LogicalDisk 对象

Win32\_PerfFormattedData\_PerfDisk\_LogicalDisk 代表逻辑磁盘性能数据对象，利用该对象可以获得磁盘的心能信息。Win32\_PerfFormattedData\_PerfDisk\_LogicalDisk对象有以下一些主要的属性：

Name： 磁盘名称  
DiskTransfersPerSec：每秒磁盘传输次数。  
DiskReadBytesPerSec：每秒从磁盘读取得数据量，单位为Byte。  
DiskWriteBytesPerSec：每秒从磁盘读取得数据量，单位为Byte。  
PercentFreeSpace：可用磁盘百分比。

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# 主要关注三个个指标DiskBytesPersec 读写的总byte。。。DiskBytesPersec ,磁盘读写时间百分比 PercentDiskTime

我们平常的任务管理器里面的就是磁盘读写时间百分比 PercentDiskTime

磁盘读写时间百分比 PercentDiskTime

DiskBytesPersec =DiskReadBytesPersec +DiskWriteBytesPersec ；

DiskTransfersPersec iops每秒==DiskReadsPersec +DiskWritesPersec

PercentDiskTime =PercentDiskReadTime + PercentDiskWriteTime

## >wmic path Win32\_PerfFormattedData\_PerfDisk\_LogicalDisk where Name='\_Total' get DiskBytesPersec,DiskReadBytesPersec,DiskWriteBytesPersec,DiskTransfersPersec,DiskReadsPerse

C:\>wmic path Win32\_PerfFormattedData\_PerfDisk\_LogicalDisk where Name='\_Total' get DiskBytesPersec,DiskReadBytesPersec,DiskWriteBytesPersec,DiskTransfersPersec,DiskReadsPersec,DiskWritesPersec

DiskBytesPersec DiskReadBytesPersec DiskReadsPersec DiskTransfersPersec DiskWriteBytesPersec DiskWritesPersec

506847 425097 103 119 81749 15

/hislog/src/main/java/com/attilax/device/perfMonitorService.java

## 返回json

[{DiskBytesPersec=391077, DiskReadBytesPersec=0, DiskReadsPersec=0, DiskTransfersPersec=23, DiskWriteBytesPersec=391077, DiskWritesPersec=23}]

{cpu=57, mem={canuse=435, all=8100}, io={PercentDiskTime=100, DiskReadBytesPersec=18026780, DiskWriteBytesPersec=14457282, DiskReadsPersec=51, DiskWritesPersec=27, DiskBytesPersec=32484062, DiskTransfersPersec=79, PercentDiskReadTime=100, PercentDiskWriteTime=44}}

###### Monitor IO for Windows

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阅读数：209

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1. wmic path Win32\_PerfFormattedData\_PerfDisk\_LogicalDisk where Name='\_Total' get PercentIdleTime

wmic path Win32\_PerfFormattedData\_PerfDisk\_LogicalDisk where Name='\_Total' get DiskBytesPersec , DiskReadBytesPersec ,DiskWriteBytesPersec , DiskTransfersPersec ,DiskReadsPersec DiskWritesPersec

AvgDiskBytesPerRead AvgDiskBytesPerTransfer AvgDiskBytesPerWrite AvgDiskQueueLength AvgDiskReadQueueLength AvgDisksecPerRead AvgDisksecPerTransfer AvgDisksecPerWrite AvgDiskWriteQueueLength Caption CurrentDiskQueueLength Description DiskBytesPersec DiskReadBytesPersec DiskReadsPersec DiskTransfersPersec DiskWriteBytesPersec DiskWritesPersec FreeMegabytes Frequency\_Object Frequency\_PerfTime Frequency\_Sys100NS Name PercentDiskReadTime PercentDiskTime PercentDiskWriteTime PercentFreeSpace PercentIdleTime SplitIOPerSec Timestamp\_Object Timestamp\_PerfTime Timestamp\_Sys100NS

29354 17066 4778 2 2 0 0 0 0 5 816997 702618 23 47 114379 23 785474 \_Total 50 51 1 82 75 7

29354 17066 4778 2 2 0 0 0 0 5 816997 702618 23 47 114379 23 784461 C: 100 100 4 83 0 7

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 379 HarddiskVolume4 0 0 0 46 100 0

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 152 HarddiskVolume5 0 0 0 1 100 0

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 482 HarddiskVolume6 0 0 0 41 100 0

DiskBytesPersec DiskReadBytesPersec DiskReadsPersec

816997 702618 23

DiskTransfersPersec DiskWriteBytesPersec DiskWritesPersec

47 114379 23

# Code

package com.attilax.device;

import java.util.Arrays;

import java.util.List;

import java.util.Map;

import com.attilax.collection.mapBuilder;

import com.attilax.data.csv.csvService;

import com.attilax.shell.CliService;

import com.attilax.shell.ProcessUtil;

import com.attilax.util.Listutil;

import com.google.common.collect.Lists;

public class perfMonitorService {

public static void main(String[] args) {

System.out.println( new perfMonitorService().sysinfo(null));

// System.out.println( new cpuservice().memusage(null));

// System.out.println( new perfMonitorService().ioinfo(null));

}

@SuppressWarnings("all")

private Object ioinfo(Object object) {

String cmd="wmic path Win32\_PerfFormattedData\_PerfDisk\_LogicalDisk where Name='\_Total' get DiskBytesPersec,DiskReadBytesPersec,DiskWriteBytesPersec,DiskTransfersPersec,DiskReadsPersec,DiskWritesPersec,PercentDiskTime ,PercentDiskReadTime ,PercentDiskWriteTime";

String charsetName = "utf8";charsetName = "gbk";

Process Process1= ProcessUtil.start(cmd, null);

String stdout\_2str\_ByIoutil = CliService.stdout\_2str\_ByIoutil(Process1, charsetName);

String erroutput2strByIoutil = CliService.Erroutput2strByIoutil(Process1, charsetName);

System.out.println(erroutput2strByIoutil);

List<Map> tab=csvService.toTableByTab(stdout\_2str\_ByIoutil);

List<Map> tab2=Listutil.from(tab).select("PercentDiskTime,DiskReadBytesPersec,DiskWriteBytesPersec,,DiskReadsPersec,DiskWritesPersec,DiskBytesPersec,DiskTransfersPersec, ,PercentDiskReadTime ,PercentDiskWriteTime");

// return li.get(li.size()-1).trim();

return tab2.get(0);

}