iSMART Linux

iSMART Disk Info

ubuntu@ubuntu-System-Product-Name:~/iSMART_6.4.06_linux_x86_x64/sample\$ sudo ./iSMART_64 -d /dev/sda -a 1

sudo ./iSMART_64 -d /dev/sda -a 1

- -d:指定查詢 Disk
- -a 1:將iAnalyzer開啟.

```
Innodisk iSMART V6.4.06
                                                           2022/06/17 *
Model Name : DGM24-B56M71ECAQF-B553
              : 20170701AA0000000001
Serial Num
FW Version
               : AABBCCDD
WWN / EUI64 : 524693E000000000
BusType
              : 11
Capacity
              : 93.16 GB
LBAs
               : 195371568
Health
               : 99.80
               : 3000
PE Cycle
AVG. Erase
Temperature
               : 32
Power ON Hours : 172
Power ON Cycle : 2067
LBA48
               : YES
HPA
               : NO
               : YES
NCQ
TRIM
               : YES
Security
               : YES
               : YES
TSensor
Crypto Erase
               : NO
               : SATA/600
Transfer
Interface
               : Serial ATA
Standard
               : ATA10
               : YES (Enable) Ver 1
Analyzer
Write Protect : YES (Disable)
InnoRobust
               : NO
               : NO
0Erase
```

- Model name: 產品號
- Serial Num:序號
- FW Version: 外顯 FW
- WWN / EUI64: 全球名稱
- BusType: 硬碟匯流排類型(Serial Attached SCSI(SAS))
- Capacity: 硬碟容量

- LABs: 區塊位址數
- Health:健康度
- P/E Cycle: 寫入/抹除次數
- AVG. Erase: 平均抹除次數
- Temperature: 硬碟溫度
- Power on Hours: 上電時間(小時)
- Power ON Cycle: 上電次數
- LBA48: 磁碟讀取方式
- HPA: 主機保護區
- NCQ: 命令緩衝區
- TRIM: ATA資料集管理指令
- Security:加密
- TSensor: 溫度感測器
- Crypto Erase:加密刪除
- Transfer: 傳輸模式
- Interface: 傳輸界面
- Standard: 規範
- Analyzer: 分析儀
- Write Protect: 寫入保護
- InnoRobust: 資料安全技術
- QErase: 快速清除

ID	RAW Value		Value	SMART Attributes
[05] [09] [0C] [A3] [A7] [A9] [AA] [AB] [AC]	[120064640000000000000000] [1200AC64AC00000000000000] [12001300130800000000000] [12001E001E0000000000000] [12000800080000000000000] [1200064006400000000000000] [1300646402030000000000] [1200006400000000000000] [12000064000000000000000] [12000064000000000000000]		0] 172] 2067] 30] 8] 6] 100] 770] 0] 0]	Later Bad Power On Hours Power Cycle Count Total Bad Block Count Max Erase Count Avg Erase Count Device Life Spare Block Count Program Fail Count Erase Fail Count
[E5] [EB] [EB] [EB] [F1]	[0200206420001800270320] [00006464983C98B3767200] [02000000000000000000000] [020000000000	[[[[0] 0] 0] 0] 9441]	Temperature Flash ID Later Bad Block Read Later Bad Block Write Later Bad Block Erase Total LBAs Written Total LBAs Read

- Later Bad 使用後造成故障區塊數
- Power On Hours:上電時間(小時)
- Power Cycle Count:上電次數
- Total Bad Block Count: 總共故障區塊數
- Max Erase Count: 最大抹除數
- Avg Erase Count: 平均抹除數
- Device Life: 硬碟壽命
- Spare Block Count: 備用區塊數
- Program Fail Count:程序失敗次數
- Erase Fail Count: 抹除失敗次數
- Abnormal power cycle count:不正常斷電次數
- Temperature: 溫度
- Flash ID: Flash ID
- Later Bad Block Read 使用後造成故障區塊數(讀取)
- Later Bad Block Write:使用後造成故障區塊數(寫入)
- Later Bad Block Erase: 使用後造成故障區塊數(抹除)
- Total LBAs Written: 總區塊位址數(寫入)
- Total LBAs Read: 總區塊位址數(讀取)

Sequential Read				
Size	Percentage	Count		
128.x K	39%	(429777)		
64.x K	3%	(34637)		
32.x K	14%	(144683)		
16.x K	40%	(429569)		
8.x K	1%	(5836)		
4.x K	1%	(2839)		
0.x K	2%	(17486)		

Sequential Write						
Size	Percentage	Count				
128.x K	9%	(172305)				
64.x K	1%	(8338)				
32.x K	81%	(1531433)				
16.x K	1%	(17410)				
8.x K	1%	(12537)				
4.x K	1%	(17798)				
0.x K	6%	(108744)				

```
Random Read
Size
        Percentage
                        Count
                         (24515)
128.x K
        6%
64.x K
        15%
                         (62843)
32.x K
                         (129992)
        32%
16.x K
        4%
                         (14386)
8.x K
                         (30956)
        8%
4.x K
                         (9723)
        2%
0.x K
                         (135605)
         33%
```

Random Write					
Size	Percentage	Count			
128.x K	1%	(17683)			
64.x K	1%	(13034)			
32.x K	1%	(28796)			
16.x K	1%	(28374)			
8.x K	1%	(37017)			
4.x K	1%	(81186)			
0.x K	94%	(13767246)			