ООО «РЕД СОФТ»

**Отчёт о проведении тестирования оборудования P2102E-i5 на совместимость с операционной системой РЕД ОС 7.3**

г. Москва, 2021

1. Технические характеристики АРМ:

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| P2102E-i5 | |
| **Процессор** | Процессор Intel(R) Core(TM) i5-8365UE CPU @ 1.60GHz |
| **Оперативная память** | Модуль памяти 8 ГБ |
| **Дисковый массив №1** | Накопитель 64 ГБ |

1. Результаты тестирования специалистами ООО «РЕД СОФТ» и ООО "Ниеншанц-Автоматика":

* проведена успешная установка РЕД ОС 7.3;
* проведено тестирование: P2102E-i5 результат тестирования положительный.

1. Результаты тестирования специалистами ООО «РЕД СОФТ» и ООО "Ниеншанц-Автоматика"оборудования – P2102E-i5

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| --- | --- | --- | --- |
| № п/п | Результат тестирования | Результат | Результат выполнения |
| **1** | **Тестирование CPU** | | |
| 1.1 | Вывод информации о процессоре с помощью утилиты lscpu | Успешно | Приложение 1 п.1.1 |
| 1.2 | Стресс тест процессора с помощью утилиты stress-ng | Успешно | Приложение 1 п.1.2 |
| 1.3 | Вывод сенсоров температуры компонентов с помощью утилиты sensors | Успешно | Приложение 1 п.1.3 |
| **2** | **Тестирование оперативной памяти** | | |
| 2.1 | Просмотр объёма оперативной памяти производится командой free –h | Успешно | Приложение 1 п.2.1 |
| 2.2 | Просмотр подробной информации о модулях оперативной памяти с помощью утилиты dmidecode | Успешно | Приложение 1 п.2.2 |
| 2.3 | Стресс тест оперативной памяти с помощью утилиты stress-ng | Успешно | Приложение 1 п.2.3 |
| **3** | **Тестирование системы хранения** | | |
| 3.1 | Вывод доступных устройств хранения с помощью ls | Успешно | Приложение 1 п.3.1 |
| 3.2 | Вывод информации о примонтированных разделах c помощью df | Успешно | Приложение 1 п.3.2 |
| 3.3 | Вывод SMART всех дисков, поддерживающих данную технологию с помощью smartctl | Успешно | Приложение 1 п.3.3 |
| 3.4 | Тестирование скорости всех накопителей с помощью утилиты hdparm | Успешно | Приложение 1 п.3.4 |
| **4** | **Тестирование устройств, подключенных к шине PCI** | | |
| 4.1 | Вывод информации о PCI устройствах с помощью lspci | Успешно | Приложение 1 п.4.1 |
| 4.2 | Вывод информации о применяемых драйверах для PCI устройств с помощью утилиты lspci | Успешно | Приложение 1 п.4.2 |
| **5** | **Тестирование SCSI устройств** | | |
| 5.1 | Вывод информации о SCSI устройствах с помощью lsscsi | Успешно | Приложение 1 п.5 |
| **6** | **Тестирование USB устройств** | | |
| 6.1 | Вывод информации о подключенных USB устройствах с помощью lsusb | Успешно | Приложение 1 п.6 |
| **7** | **Дополнительные тесты** | | |
| 7.1 | Вывод подробной информации о всех имеющихся устройствах inxi | Успешно | Приложение 1 п.7.1 |
| 7.2 | Тестирование с помощью бенчмарка 7Zip | Успешно | Приложение 1 п.7.2 |
| 7.3 | Тестирование сети с помощью утилиты mtr | Успешно | Приложение 1 п.7.3 |
| 7.4 | Вывод информации DMI для всех возможных устройств | Успешно | Приложение 1 п.7.4 |

Приложение 1

1 Тестирование CPU

* 1. Результат выполнения команды lscpu:

Архитектура: x86\_64

CPU op-mode(s): 32-bit, 64-bit

Порядок байт: Little Endian

Address sizes: 39 bits physical, 48 bits virtual

CPU(s): 8

On-line CPU(s) list: 0-7

Thread(s) per core: 2

Ядер на сокет: 4

Сокетов: 1

NUMA node(s): 1

ID прроизводителя: GenuineIntel

Семейство ЦПУ: 6

Модель: 142

Имя модели: Intel(R) Core(TM) i5-8365UE CPU @ 1.60GHz

Степпинг: 12

CPU MHz: 2727.055

CPU max MHz: 4100,0000

CPU min MHz: 400,0000

BogoMIPS: 3600.00

Виртуализация: VT-x

L1d cache: 128 KiB

L1i cache: 128 KiB

L2 cache: 1 MiB

L3 cache: 6 MiB

NUMA node0 CPU(s): 0-7

Vulnerability Itlb multihit: KVM: Mitigation: VMX disabled

Vulnerability L1tf: Not affected

Vulnerability Mds: Not affected

Vulnerability Meltdown: Not affected

Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via prctl and seccomp

Vulnerability Spectre v1: Mitigation; usercopy/swapgs barriers and \_\_user pointer sanitization

Vulnerability Spectre v2: Mitigation; Enhanced IBRS, IBPB conditional, RSB filling

Vulnerability Srbds: Mitigation; TSX disabled

Vulnerability Tsx async abort: Mitigation; TSX disabled

Флаги: fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtscp lm constant\_tsc art arch\_perfmon pebs bts rep\_good nopl xtopology nonstop\_tsc cpuid aperfmperf pni pclmulqdq dtes64 monitor ds\_cpl vmx smx est tm2 ssse3 sdbg fma cx16 xtpr pdcm pcid sse4\_1 sse4\_2 x2apic movbe popcnt tsc\_deadline\_timer aes xsave avx f16c rdrand lahf\_lm abm 3dnowprefetch cpuid\_fault epb invpcid\_single ssbd ibrs ibpb stibp ibrs\_enhanced tpr\_shadow vnmi flexpriority ept vpid ept\_ad fsgsbase tsc\_adjust bmi1 avx2 smep bmi2 erms invpcid mpx rdseed adx smap clflushopt intel\_pt xsaveopt xsavec xgetbv1 xsaves dtherm ida arat pln pts hwp hwp\_notify hwp\_act\_window hwp\_epp md\_clear flush\_l1d arch\_capabilities

1.2 Результат выполнения команды stress-ng --cpu 0 -t 60 --metrics-brief

stress-ng: info: [5363] dispatching hogs: 8 cpu

stress-ng: info: [5363] successful run completed in 90.18s (1 min, 30.18 secs)

stress-ng: info: [5363] stressor bogo ops real time usr time sys time bogo ops/s bogo ops/s

stress-ng: info: [5363] (secs) (secs) (secs) (real time) (usr+sys time)

stress-ng: info: [5363] cpu 94782 90.11 698.16 0.30 1051.90 135.70

1.3 Результат выполнения команды sensors

coretemp-isa-0000

Adapter: ISA adapter

Package id 0: +43.0°C (high = +100.0°C, crit = +100.0°C)

Core 0: +43.0°C (high = +100.0°C, crit = +100.0°C)

Core 1: +42.0°C (high = +100.0°C, crit = +100.0°C)

Core 2: +39.0°C (high = +100.0°C, crit = +100.0°C)

Core 3: +41.0°C (high = +100.0°C, crit = +100.0°C)

acpitz-acpi-0

Adapter: ACPI interface

temp1: +44.0°C (crit = +105.0°C)

pch\_cannonlake-virtual-0

Adapter: Virtual device

temp1: +39.0°C

2 Тестирование ОЗУ

2.1 Результат выполнения команды free –h

total used free shared buff/cache available

Mem: 7,6Gi 515Mi 6,2Gi 65Mi 947Mi 6,8Gi

Swap: 6,0Gi 0B 6,0Gi

2.2 Результат выполнения команды dmidecode memory

# dmidecode 3.2

Getting SMBIOS data from sysfs.

SMBIOS 3.2.0 present.

Handle 0x003A, DMI type 16, 23 bytes

Physical Memory Array

Location: System Board Or Motherboard

Use: System Memory

Error Correction Type: None

Maximum Capacity: 32 GB

Error Information Handle: Not Provided

Number Of Devices: 2

Handle 0x0047, DMI type 17, 84 bytes

Memory Device

Array Handle: 0x003A

Error Information Handle: Not Provided

Total Width: 64 bits

Data Width: 64 bits

Size: 8 GB

Form Factor: SODIMM

Set: None

Locator: ChannelA-DIMM0

Bank Locator: BANK 0

Type: DDR4

Type Detail: Synchronous

Speed: 2667 MT/s

Manufacturer: 8AD3

Serial Number: 00000000

Asset Tag: 9876543210

Part Number: CIR-S4SUSW2608G

Rank: 1

Configured Memory Speed: 2400 MT/s

Minimum Voltage: 1.2 V

Maximum Voltage: 1.2 V

Configured Voltage: 1.2 V

Memory Technology: DRAM

Memory Operating Mode Capability: Volatile memory

Firmware Version: Not Specified

Module Manufacturer ID: Bank 11, Hex 0xD3

Module Product ID: Unknown

Memory Subsystem Controller Manufacturer ID: Unknown

Memory Subsystem Controller Product ID: Unknown

Non-Volatile Size: None

Volatile Size: 8 GB

Cache Size: None

Logical Size: None

Handle 0x0048, DMI type 17, 84 bytes

Memory Device

Array Handle: 0x003A

Error Information Handle: Not Provided

Total Width: Unknown

Data Width: Unknown

Size: No Module Installed

Form Factor: Unknown

Set: None

Locator: ChannelB-DIMM0

Bank Locator: BANK 2

Type: Unknown

Type Detail: None

Speed: Unknown

Manufacturer: Not Specified

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: Not Specified

Rank: Unknown

Configured Memory Speed: Unknown

Minimum Voltage: Unknown

Maximum Voltage: Unknown

Configured Voltage: Unknown

Memory Technology: <OUT OF SPEC>

Memory Operating Mode Capability: None

Firmware Version: Not Specified

Module Manufacturer ID: Unknown

Module Product ID: Unknown

Memory Subsystem Controller Manufacturer ID: Unknown

Memory Subsystem Controller Product ID: Unknown

Non-Volatile Size: None

Volatile Size: None

Cache Size: None

Logical Size: None

2.3 Результат выполнения команды: stress-ng ram test

stress-ng: info: [38074] disabled 'oom-pipe' as it may hang or reboot the machine (enable it with the --pathological option)

stress-ng: info: [38074] dispatching hogs: 8 atomic, 8 bad-altstack, 8 bsearch, 8 context, 8 full, 8 heapsort, 8 hsearch, 8 judy, 8 lockbus, 8 lsearch, 8 malloc, 8 matrix, 8 matrix-3d, 8 mcontend, 8 membarrier, 8 memcpy, 8 memfd, 8 memrate, 8 memthrash, 8 mergesort, 8 mincore, 8 null, 8 numa, 8 pipe, 8 pipeherd, 8 qsort, 8 radixsort, 8 remap, 8 resources, 8 rmap, 8 shellsort, 8 skiplist, 8 stack, 8 stackmmap, 8 str, 8 stream, 8 tlb-shootdown, 8 tmpfs, 8 tree, 8 tsearch, 8 vm, 8 vm-addr, 8 vm-rw, 8 vm-segv, 8 wcs, 8 zero, 8 zlib

stress-ng: info: [61569] stress-ng-memrate: write64: 1477.41 MB/sec

stress-ng: info: [61569] stress-ng-memrate: read64: 1359.97 MB/sec

stress-ng: info: [61566] stress-ng-memrate: write64: 1468.55 MB/sec

stress-ng: info: [61566] stress-ng-memrate: read64: 1455.51 MB/sec

stress-ng: info: [61566] stress-ng-memrate: write32: 1167.09 MB/sec

stress-ng: info: [61566] stress-ng-memrate: read32: 1307.22 MB/sec

stress-ng: info: [61569] stress-ng-memrate: write32: 1246.67 MB/sec

stress-ng: info: [61566] stress-ng-memrate: write16: 1334.70 MB/sec

stress-ng: info: [61569] stress-ng-memrate: read32: 1348.05 MB/sec

stress-ng: info: [61566] stress-ng-memrate: read16: 994.52 MB/sec

stress-ng: info: [61569] stress-ng-memrate: write16: 1353.46 MB/sec

stress-ng: info: [61566] stress-ng-memrate: write8: 1106.20 MB/sec

stress-ng: info: [61569] stress-ng-memrate: read16: 1022.96 MB/sec

stress-ng: info: [61566] stress-ng-memrate: read8: 918.60 MB/sec

stress-ng: info: [61569] stress-ng-memrate: write8: 1132.00 MB/sec

stress-ng: info: [61569] stress-ng-memrate: read8: 845.83 MB/sec

stress-ng: info: [61573] stress-ng-memrate: write64: 1177.45 MB/sec

stress-ng: info: [61573] stress-ng-memrate: read64: 1491.25 MB/sec

stress-ng: info: [61573] stress-ng-memrate: write32: 1182.25 MB/sec

stress-ng: info: [61573] stress-ng-memrate: read32: 1212.62 MB/sec

stress-ng: info: [61573] stress-ng-memrate: write16: 1174.23 MB/sec

stress-ng: info: [61573] stress-ng-memrate: read16: 1143.37 MB/sec

stress-ng: info: [61573] stress-ng-memrate: write8: 950.49 MB/sec

stress-ng: info: [61573] stress-ng-memrate: read8: 1156.10 MB/sec

stress-ng: info: [61567] stress-ng-memrate: write64: 1182.44 MB/sec

stress-ng: info: [61567] stress-ng-memrate: read64: 1521.18 MB/sec

stress-ng: info: [61567] stress-ng-memrate: write32: 1142.79 MB/sec

stress-ng: info: [61567] stress-ng-memrate: read32: 1285.67 MB/sec

stress-ng: info: [61567] stress-ng-memrate: write16: 1158.61 MB/sec

stress-ng: info: [61567] stress-ng-memrate: read16: 1172.98 MB/sec

stress-ng: info: [61567] stress-ng-memrate: write8: 950.37 MB/sec

stress-ng: info: [61567] stress-ng-memrate: read8: 1099.35 MB/sec

stress-ng: info: [61568] stress-ng-memrate: write64: 1216.60 MB/sec

stress-ng: info: [61568] stress-ng-memrate: read64: 1502.35 MB/sec

stress-ng: info: [61568] stress-ng-memrate: write32: 1160.51 MB/sec

stress-ng: info: [61568] stress-ng-memrate: read32: 1214.98 MB/sec

stress-ng: info: [61568] stress-ng-memrate: write16: 1181.56 MB/sec

stress-ng: info: [61568] stress-ng-memrate: read16: 1116.28 MB/sec

stress-ng: info: [61568] stress-ng-memrate: write8: 956.98 MB/sec

stress-ng: info: [61568] stress-ng-memrate: read8: 1144.86 MB/sec

stress-ng: info: [61570] stress-ng-memrate: write64: 1267.07 MB/sec

stress-ng: info: [61575] stress-ng-memrate: write64: 1173.26 MB/sec

stress-ng: info: [61570] stress-ng-memrate: read64: 1398.69 MB/sec

stress-ng: info: [61570] stress-ng-memrate: write32: 1132.17 MB/sec

stress-ng: info: [61575] stress-ng-memrate: read64: 1527.26 MB/sec

stress-ng: info: [61570] stress-ng-memrate: read32: 1426.63 MB/sec

stress-ng: info: [61575] stress-ng-memrate: write32: 1153.69 MB/sec

stress-ng: info: [61577] stress-ng-memrate: write64: 1269.43 MB/sec

stress-ng: info: [61570] stress-ng-memrate: write16: 1019.93 MB/sec

stress-ng: info: [61575] stress-ng-memrate: read32: 1257.41 MB/sec

stress-ng: info: [61570] stress-ng-memrate: read16: 1419.88 MB/sec

stress-ng: info: [61577] stress-ng-memrate: read64: 1367.14 MB/sec

stress-ng: info: [61575] stress-ng-memrate: write16: 1155.66 MB/sec

stress-ng: info: [61570] stress-ng-memrate: write8: 970.58 MB/sec

stress-ng: info: [61577] stress-ng-memrate: write32: 1147.57 MB/sec

stress-ng: info: [61575] stress-ng-memrate: read16: 1185.16 MB/sec

stress-ng: info: [61570] stress-ng-memrate: read8: 922.07 MB/sec

stress-ng: info: [61577] stress-ng-memrate: read32: 1436.49 MB/sec

stress-ng: info: [61575] stress-ng-memrate: write8: 946.85 MB/sec

stress-ng: info: [61577] stress-ng-memrate: write16: 1025.80 MB/sec

stress-ng: info: [61575] stress-ng-memrate: read8: 1112.15 MB/sec

stress-ng: info: [61577] stress-ng-memrate: read16: 1417.41 MB/sec

stress-ng: info: [61577] stress-ng-memrate: write8: 977.07 MB/sec

stress-ng: info: [61577] stress-ng-memrate: read8: 911.10 MB/sec

stress-ng: info: [61591] stress-ng-memthrash: starting 1 thread on each of the 8 stressors on a 8 CPU system

stress-ng: info: [61669] stress-ng-numa: system has 1 of a maximum 1024 memory NUMA nodes

stress-ng: info: [61709] stress-ng-pipeherd: 0.39 context switches per bogo operation (128042.38 per second)

stress-ng: info: [61704] stress-ng-pipeherd: 0.47 context switches per bogo operation (132830.01 per second)

stress-ng: info: [61714] stress-ng-pipeherd: 0.43 context switches per bogo operation (123961.47 per second)

stress-ng: info: [61699] stress-ng-pipeherd: 0.50 context switches per bogo operation (111306.34 per second)

stress-ng: info: [61700] stress-ng-pipeherd: 0.46 context switches per bogo operation (109229.33 per second)

stress-ng: info: [61698] stress-ng-pipeherd: 0.40 context switches per bogo operation (114247.57 per second)

stress-ng: info: [61702] stress-ng-pipeherd: 0.43 context switches per bogo operation (117914.90 per second)

stress-ng: info: [61701] stress-ng-pipeherd: 0.48 context switches per bogo operation (122615.38 per second)

stress-ng: info: [166784] stress-ng-stream: stressor loosely based on a variant of the STREAM benchmark code

stress-ng: info: [166784] stress-ng-stream: do NOT submit any of these results to the STREAM benchmark results

stress-ng: info: [166784] stress-ng-stream: Using CPU cache size of 6144K

stress-ng: info: [166784] stress-ng-stream: memory rate: 1213.95 MB/sec, 485.58 Mflop/sec (instance 0)

stress-ng: info: [166785] stress-ng-stream: memory rate: 1217.94 MB/sec, 487.17 Mflop/sec (instance 1)

stress-ng: info: [166790] stress-ng-stream: memory rate: 1206.35 MB/sec, 482.54 Mflop/sec (instance 6)

stress-ng: info: [166789] stress-ng-stream: memory rate: 1198.33 MB/sec, 479.33 Mflop/sec (instance 5)

stress-ng: info: [166787] stress-ng-stream: memory rate: 1202.43 MB/sec, 480.97 Mflop/sec (instance 3)

stress-ng: info: [166786] stress-ng-stream: memory rate: 1219.36 MB/sec, 487.75 Mflop/sec (instance 2)

stress-ng: info: [166791] stress-ng-stream: memory rate: 1213.32 MB/sec, 485.33 Mflop/sec (instance 7)

stress-ng: info: [166788] stress-ng-stream: memory rate: 1199.80 MB/sec, 479.92 Mflop/sec (instance 4)

stress-ng: info: [916419] stress-ng-zlib: instance 2: compression ratio: 15.20% (4.79 MB/sec)

stress-ng: info: [916423] stress-ng-zlib: instance 5: compression ratio: 15.36% (5.19 MB/sec)

stress-ng: info: [916418] stress-ng-zlib: instance 1: compression ratio: 15.47% (5.01 MB/sec)

stress-ng: info: [916427] stress-ng-zlib: instance 6: compression ratio: 15.48% (5.29 MB/sec)

stress-ng: info: [916421] stress-ng-zlib: instance 4: compression ratio: 15.54% (5.28 MB/sec)

stress-ng: info: [916428] stress-ng-zlib: instance 7: compression ratio: 15.37% (5.27 MB/sec)

stress-ng: info: [916420] stress-ng-zlib: instance 3: compression ratio: 15.61% (5.36 MB/sec)

stress-ng: info: [916417] stress-ng-zlib: instance 0: compression ratio: 15.56% (5.12 MB/sec)

stress-ng: info: [38074] successful run completed in 2830.40s (47 mins, 10.40 secs)

stress-ng: info: [38074] stressor bogo ops real time usr time sys time bogo ops/s bogo ops/s

stress-ng: info: [38074] (secs) (secs) (secs) (real time) (usr+sys time)

stress-ng: info: [38074] atomic 9446937 60.00 479.25 0.00 157449.02 19711.92

stress-ng: info: [38074] bad-altstack 3306 60.03 1.28 1.39 55.07 1238.20

stress-ng: info: [38074] bsearch 84168 60.00 479.03 0.00 1402.76 175.71

stress-ng: info: [38074] context 1340645 60.00 244.07 235.06 22344.10 2798.08

stress-ng: info: [38074] full 39664574 60.00 306.58 165.42 661076.69 84035.11

stress-ng: info: [38074] heapsort 1002 60.00 478.99 0.00 16.70 2.09

stress-ng: info: [38074] hsearch 825178 60.00 478.47 0.00 13752.97 1724.62

stress-ng: info: [38074] judy 3484 60.06 471.83 6.09 58.01 7.29

stress-ng: info: [38074] lockbus 827784 60.01 478.22 0.17 13794.40 1730.35

stress-ng: info: [38074] lsearch 1555 60.00 479.17 0.00 25.92 3.25

stress-ng: info: [38074] malloc 789169964 60.03 475.31 0.69 13146787.37 1657920.09

stress-ng: info: [38074] matrix 754948 60.00 479.06 0.00 12582.47 1575.89

stress-ng: info: [38074] matrix-3d 21047 60.01 475.45 0.18 350.72 44.25

stress-ng: info: [38074] mcontend 83702 60.01 477.34 0.73 1394.87 175.08

stress-ng: info: [38074] membarrier 47172 60.02 7.34 1.08 786.00 5602.38

stress-ng: info: [38074] memcpy 34793 60.01 474.35 0.00 579.83 73.35

stress-ng: info: [38074] memfd 11026 60.01 4.54 467.64 183.74 23.35

stress-ng: info: [38074] memrate 274 60.04 476.62 1.85 4.56 0.57

stress-ng: info: [38074] memthrash 12857 60.50 470.88 2.07 212.50 27.18

stress-ng: info: [38074] mergesort 5352 60.00 477.29 0.00 89.20 11.21

stress-ng: info: [38074] mincore 1081486 60.00 55.65 423.39 18024.78 2257.61

stress-ng: info: [38074] null 66187800 60.00 48.18 430.48 1103130.83 138277.27

stress-ng: info: [38074] numa 3149 60.09 54.61 422.31 52.41 6.60

stress-ng: info: [38074] pipe 69022811 60.00 66.86 411.82 1150376.12 144194.06

stress-ng: info: [38074] pipeherd 130555379 60.02 45.74 432.90 2175027.64 272763.20

stress-ng: info: [38074] qsort 1817 60.00 478.40 0.00 30.28 3.80

stress-ng: info: [38074] radixsort 2760 60.00 476.21 0.00 46.00 5.80

stress-ng: info: [38074] remap 59281 60.01 13.12 465.28 987.93 123.92

stress-ng: info: [38074] resources 100101 60.47 24.94 354.65 1655.30 263.71

stress-ng: info: [38074] rmap 128 60.00 0.01 0.29 2.13 426.67

stress-ng: info: [38074] shellsort 2885 60.00 477.80 0.00 48.08 6.04

stress-ng: info: [38074] skiplist 1510154 60.00 479.10 0.00 25169.20 3152.06

stress-ng: info: [38074] stack 279826 63.90 1.58 80.65 4379.10 3402.97

stress-ng: info: [38074] stackmmap 1335 60.01 0.65 7.48 22.25 164.21

stress-ng: info: [38074] str 9387649 60.00 478.95 0.02 156461.30 19599.66

stress-ng: info: [38074] stream 19313 60.02 475.22 0.18 321.77 40.62

stress-ng: info: [38074] tlb-shootdown 18619 60.01 76.13 399.37 310.24 39.16

stress-ng: info: [38074] tmpfs 1107 60.04 272.82 201.90 18.44 2.33

stress-ng: info: [38074] tree 232 60.00 476.15 0.02 3.87 0.49

stress-ng: info: [38074] tsearch 2290 60.06 475.01 0.03 38.13 4.82

stress-ng: info: [38074] vm 1752830 60.01 467.31 2.51 29209.14 3730.85

stress-ng: info: [38074] vm-addr 440 61.91 485.88 6.97 7.11 0.89

stress-ng: info: [38074] vm-rw 81862 60.00 0.85 473.45 1364.31 172.60

stress-ng: info: [38074] vm-segv 600451 60.00 148.98 326.05 10007.51 1264.03

stress-ng: info: [38074] wcs 4981278 60.00 479.05 0.00 83021.37 10398.24

stress-ng: info: [38074] zero 9602264 60.00 50.58 409.10 160037.83 20889.02

stress-ng: info: [38074] zlib 22509 60.01 478.27 0.46 375.06 47.02

stress-ng: info: [420390] memcpy 19578 60.01 217.74 0.53 326.27 89.70

stress-ng: info: [420390] memfd 2101 60.02 1.71 222.55 35.01 9.37

stress-ng: info: [420390] memrate 180 60.04 219.04 1.55 3.00 0.82

stress-ng: info: [420390] memthrash 5073 60.50 220.35 1.61 83.85 22.86

stress-ng: info: [420390] mergesort 2463 60.00 226.76 0.33 41.05 10.85

stress-ng: info: [420390] mincore 578279 60.00 32.48 201.85 9638.00 2467.80

stress-ng: info: [420390] null 21060441 60.00 18.52 215.41 351008.23 90028.82

stress-ng: info: [420390] numa 1359 60.06 34.66 188.79 22.63 6.08

stress-ng: info: [420390] pipe 46430986 60.00 39.29 188.42 773845.58 203904.03

stress-ng: info: [420390] pipeherd 74299825 60.07 20.72 206.97 1236975.59 326320.11

stress-ng: info: [420390] qsort 1277 60.00 232.72 0.15 21.28 5.48

stress-ng: info: [420390] radixsort 830 60.00 227.54 0.22 13.83 3.64

stress-ng: info: [420390] remap 20460 60.00 7.16 226.04 340.98 87.74

stress-ng: info: [420390] resources 17879 60.70 12.45 192.05 294.54 87.43

stress-ng: info: [420390] rmap 64 60.00 0.01 0.23 1.07 266.67

stress-ng: info: [420390] shellsort 1324 60.00 228.83 0.20 22.07 5.78

stress-ng: info: [420390] skiplist 1137838 60.00 234.10 0.11 18963.96 4858.20

stress-ng: info: [420390] stack 443210 63.19 1.12 56.48 7013.40 7694.62

stress-ng: info: [420390] stackmmap 8574 60.00 3.24 41.47 142.89 191.77

stress-ng: info: [420390] str 4461783 60.00 233.82 0.14 74363.32 19070.71

stress-ng: info: [420390] stream 43507 60.00 232.57 0.04 725.09 187.04

stress-ng: info: [420390] tlb-shootdown 11088 60.01 33.26 197.57 184.77 48.04

stress-ng: info: [420390] tmpfs 238 60.12 104.42 129.81 3.96 1.02

stress-ng: info: [420390] tree 104 60.00 234.41 0.04 1.73 0.44

stress-ng: info: [420390] tsearch 906 60.07 234.88 0.01 15.08 3.86

stress-ng: info: [420390] vm 1341378 60.01 229.63 3.16 22351.96 5762.18

stress-ng: info: [420390] vm-addr 216 65.00 249.44 5.36 3.32 0.85

stress-ng: info: [420390] vm-rw 23467 60.00 0.34 231.72 391.10 101.12

stress-ng: info: [420390] vm-segv 181765 60.00 41.08 191.63 3029.40 781.08

stress-ng: info: [420390] wcs 2431602 60.00 238.71 0.00 40526.77 10186.43

stress-ng: info: [420390] zero 3032826 60.00 19.34 209.72 50547.15 13240.31

stress-ng: info: [420390] zlib 15336 60.02 238.12 0.53 255.52 64.26

3 Тестирование жестких дисков

3.1 Результат выполнения команды ls -l /dev

brw-rw----. 1 root disk 8, 0 июл 23 14:51 sda

brw-rw----. 1 root disk 8, 1 июл 23 14:51 sda1

brw-rw----. 1 root disk 8, 2 июл 23 14:51 sda2

brw-rw----. 1 root disk 8, 16 июл 23 15:22 sdb

brw-rw----. 1 root disk 8, 17 июл 23 15:22 sdb1

crw-------. 1 root root 10, 130 июл 23 14:51 watchdog

crw-------. 1 root root 247, 0 июл 23 14:51 watchdog0

3.2 Результат выполнения команды df -h

Файловая система Размер Использовано Дост Использовано% Cмонтировано в

devtmpfs 3,8G 0 3,8G 0% /dev

tmpfs 3,9G 0 3,9G 0% /dev/shm

tmpfs 1,6G 1,6M 1,6G 1% /run

/dev/mapper/ro\_redos-root 35G 6,2G 27G 19% /

/dev/mapper/ro\_redos-home 17G 57M 16G 1% /home

/dev/sda1 976M 160M 750M 18% /boot

tmpfs 782M 140K 781M 1% /run/user/1000

/dev/sdb1 15G 9,4G 5,1G 65% /run/media/ahv/6630-DAA7

3.3 Результат выполнения команды smartctl --info для каждого диска

smartctl 7.1 2019-12-30 r5022 [x86\_64-linux-5.10.29-1.el7.x86\_64] (local build)

Copyright (C) 2002-19, Bruce Allen, Christian Franke, www.smartmontools.org

=== START OF INFORMATION SECTION ===

Device Model: CIS 2S T380 64GB W

Serial Number: 200800000116

LU WWN Device Id: d 000000 000000000

Firmware Version: A008024d

User Capacity: 64 023 257 088 bytes [64,0 GB]

Sector Size: 512 bytes logical/physical

Rotation Rate: Solid State Device

Form Factor: 2.5 inches

Device is: Not in smartctl database [for details use: -P showall]

ATA Version is: ACS-2 (minor revision not indicated)

SATA Version is: SATA 3.2, 6.0 Gb/s (current: 6.0 Gb/s)

Local Time is: Fri Jul 23 16:12:38 2021 MSK

SMART support is: Available - device has SMART capability.

SMART support is: Enabled

3.4 Результат выполнения команды hdparm –Tt для каждого диска

/dev/sda:

Timing cached reads: 26712 MB in 2.00 seconds = 13380.81 MB/sec

Timing buffered disk reads: 1080 MB in 3.00 seconds = 359.98 MB/sec

4 Проверка PCI устройств

4.1 Результат выполнения команды lspci

00:00.0 Host bridge: Intel Corporation Coffee Lake HOST and DRAM Controller (rev 0c)

00:02.0 VGA compatible controller: Intel Corporation UHD Graphics 620 (Whiskey Lake) (rev 02)

00:08.0 System peripheral: Intel Corporation Xeon E3-1200 v5/v6 / E3-1500 v5 / 6th/7th/8th Gen Core Processor Gaussian Mixture Model

00:12.0 Signal processing controller: Intel Corporation Cannon Point-LP Thermal Controller (rev 30)

00:14.0 USB controller: Intel Corporation Cannon Point-LP USB 3.1 xHCI Controller (rev 30)

00:14.2 RAM memory: Intel Corporation Cannon Point-LP Shared SRAM (rev 30)

00:16.0 Communication controller: Intel Corporation Cannon Point-LP MEI Controller #1 (rev 30)

00:17.0 SATA controller: Intel Corporation Cannon Point-LP SATA Controller [AHCI Mode] (rev 30)

00:1c.0 PCI bridge: Intel Corporation Cannon Point PCI Express Root Port #8 (rev f0)

00:1f.0 ISA bridge: Intel Corporation Cannon Point-LP LPC Controller (rev 30)

00:1f.3 Audio device: Intel Corporation Cannon Point-LP High Definition Audio Controller (rev 30)

00:1f.4 SMBus: Intel Corporation Cannon Point-LP SMBus Controller (rev 30)

00:1f.5 Serial bus controller [0c80]: Intel Corporation Cannon Point-LP SPI Controller (rev 30)

00:1f.6 Ethernet controller: Intel Corporation Ethernet Connection (7) I219-LM (rev 30)

01:00.0 Ethernet controller: Intel Corporation I210 Gigabit Network Connection (rev 03)

4.2 Результат выполнения команды lspci -k

00:00.0 Host bridge: Intel Corporation Coffee Lake HOST and DRAM Controller (rev 0c)

DeviceName: Onboard - Other

Subsystem: Intel Corporation Device 7270

Kernel driver in use: skl\_uncore

00:02.0 VGA compatible controller: Intel Corporation UHD Graphics 620 (Whiskey Lake) (rev 02)

DeviceName: Onboard - Video

Subsystem: Intel Corporation Device 2212

Kernel driver in use: i915

Kernel modules: i915

00:08.0 System peripheral: Intel Corporation Xeon E3-1200 v5/v6 / E3-1500 v5 / 6th/7th/8th Gen Core Processor Gaussian Mixture Model

DeviceName: Onboard - Other

Subsystem: Intel Corporation Device 7270

00:12.0 Signal processing controller: Intel Corporation Cannon Point-LP Thermal Controller (rev 30)

DeviceName: Onboard - Other

Subsystem: Intel Corporation Device 7270

Kernel driver in use: intel\_pch\_thermal

Kernel modules: intel\_pch\_thermal

00:14.0 USB controller: Intel Corporation Cannon Point-LP USB 3.1 xHCI Controller (rev 30)

DeviceName: Onboard - Other

Subsystem: Intel Corporation Device 7270

Kernel driver in use: xhci\_hcd

00:14.2 RAM memory: Intel Corporation Cannon Point-LP Shared SRAM (rev 30)

DeviceName: Onboard - Other

Subsystem: Intel Corporation Device 7270

00:16.0 Communication controller: Intel Corporation Cannon Point-LP MEI Controller #1 (rev 30)

DeviceName: Onboard - Other

Subsystem: Intel Corporation Device 7270

Kernel driver in use: mei\_me

Kernel modules: mei\_me

00:17.0 SATA controller: Intel Corporation Cannon Point-LP SATA Controller [AHCI Mode] (rev 30)

DeviceName: Onboard - SATA

Subsystem: Intel Corporation Device 7270

Kernel driver in use: ahci

00:1c.0 PCI bridge: Intel Corporation Cannon Point PCI Express Root Port #8 (rev f0)

Kernel driver in use: pcieport

00:1f.0 ISA bridge: Intel Corporation Cannon Point-LP LPC Controller (rev 30)

DeviceName: Onboard - Other

Subsystem: Intel Corporation Device 7270

00:1f.3 Audio device: Intel Corporation Cannon Point-LP High Definition Audio Controller (rev 30)

DeviceName: Onboard - Sound

Subsystem: Intel Corporation Device 7270

Kernel driver in use: snd\_hda\_intel

Kernel modules: snd\_hda\_intel, snd\_soc\_skl, snd\_sof\_pci

00:1f.4 SMBus: Intel Corporation Cannon Point-LP SMBus Controller (rev 30)

DeviceName: Onboard - Other

Subsystem: Intel Corporation Device 7270

Kernel driver in use: i801\_smbus

Kernel modules: i2c\_i801

00:1f.5 Serial bus controller [0c80]: Intel Corporation Cannon Point-LP SPI Controller (rev 30)

DeviceName: Onboard - Other

Subsystem: Intel Corporation Device 7270

00:1f.6 Ethernet controller: Intel Corporation Ethernet Connection (7) I219-LM (rev 30)

DeviceName: Onboard - Ethernet

Subsystem: Intel Corporation Device 0000

Kernel driver in use: e1000e

Kernel modules: e1000e

01:00.0 Ethernet controller: Intel Corporation I210 Gigabit Network Connection (rev 03)

Kernel driver in use: igb

Kernel modules: igb

5 Проверка SCSI устройств

Результат выполнения команды lsscsi

[1:0:0:0] disk ATA CIS 2S T380 64GB 024d /dev/sda

[2:0:0:0] disk UFD 3.0 Silicon-Power16G 1.00 /dev/sdb

6 Результат выполнения

команды lsusb

Bus 002 Device 003: ID 1f75:0916 Innostor Technology Corporation IS916 Flash Drive

Bus 002 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub

Bus 001 Device 009: ID 1a2c:2124 China Resource Semico Co., Ltd Keyboard

Bus 001 Device 008: ID 046d:c06a Logitech, Inc. USB Optical Mouse

Bus 001 Device 007: ID 13ba:0018 PCPlay Barcode PCP-BCG4209

Bus 001 Device 006: ID 14cd:8601 Super Top 4-Port hub

Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub

7 Комплексная проверка аппаратной составляющей компьютера

7.1 Результат выполнения команды inxi -Fx

System:

Host: localhost.localdomain Kernel: 5.10.29-1.el7.x86\_64 x86\_64 bits: 64

compiler: gcc v: 2.30-73.el7) Desktop: MATE 1.24.1 info: mate-panel

wm: marco 1.24.1 dm: GDM 3.38.2 Distro: RED OS release MUROM (7.3) DESKTOP

Machine:

Type: Desktop Mobo: CINCOZE model: P-2100 v: 0.0.01.001 serial: N/A

UEFI [Legacy]: American Megatrends v: 5.13 date: 10/23/2019

CPU:

Info: Quad Core model: Intel Core i5-8365UE bits: 64 type: MT MCP

arch: Kaby Lake note: check rev: C L1 cache: 256 KiB L2 cache: 6 MiB

L3 cache: 5.9 MiB

flags: avx avx2 lm nx pae sse sse2 sse3 sse4\_1 sse4\_2 ssse3 vmx

bogomips: 28800

Speed: 700 MHz min/max: 400/4100 MHz volts: 0.7 V ext-clock: 100 MHz

Core speeds (MHz): 1: 700 2: 700 3: 700 4: 700 5: 700 6: 700 7: 700 8: 700

Graphics:

Device-1: Intel UHD Graphics 620 driver: i915 v: kernel bus ID: 00:02.0

chip ID: 8086:3ea0

Display: x11 server: RED SOFT X.org 1.20.9 compositor: marco v: 1.24.1

driver: modesetting unloaded: fbdev,vesa resolution: 1024x768~75Hz

s-dpi: 96

OpenGL: renderer: Mesa Intel UHD Graphics 620 (WHL GT2) v: 4.6 Mesa 20.2.4

direct render: Yes

Audio:

Device-1: Intel Cannon Point-LP High Definition Audio

driver: snd\_hda\_intel v: kernel bus ID: 00:1f.3 chip ID: 8086:9dc8

Sound Server: ALSA v: k5.10.29-1.el7.x86\_64

Network:

Device-1: Intel Ethernet I219-LM driver: e1000e v: kernel port: efa0

bus ID: 00:1f.6 chip ID: 8086:15bb

IF: eno1 state: up speed: 1000 Mbps duplex: full mac: 2c:94:64:03:f6:3e

Device-2: Intel I210 Gigabit Network driver: igb v: kernel port: 3000

bus ID: 01:00.0 chip ID: 8086:1533

IF: enp1s0 state: down mac: 2c:94:64:03:f6:3f

Drives:

Local Storage: total: 74.07 GiB used: 15.91 GiB (21.5%)

ID-1: /dev/sda model: CIS 2S T380 64GB W size: 59.63 GiB speed: 6.0 Gb/s

serial: 200800000116 rev: 024d temp: 54 C

ID-2: /dev/sdb type: USB vendor: Silicon Power model: UFD 3.0 16G

size: 14.44 GiB serial: 0916100000110814960000000284 rev: 1.00

Partition:

ID-1: / size: 34.58 GiB used: 6.14 GiB (17.8%) fs: ext4 dev: /dev/dm-0

mapped: ro\_redos-root

ID-2: /boot size: 975.9 MiB used: 159.4 MiB (16.3%) fs: ext4

dev: /dev/sda1

ID-3: /home size: 16.88 GiB used: 56.3 MiB (0.3%) fs: ext4 dev: /dev/dm-2

mapped: ro\_redos-home

Swap:

ID-1: swap-1 type: partition size: 5.96 GiB used: 199.1 MiB (3.3%)

priority: -2 dev: /dev/dm-1 mapped: ro\_redos-swap

Sensors:

System Temperatures: cpu: 54.0 C mobo: N/A

Fan Speeds (RPM): N/A

Info:

Processes: 223 Uptime: 1h 20m wakeups: 2 Memory: 7.63 GiB

used: 843.2 MiB (10.8%) Init: systemd v: 246 runlevel: 5

target: graphical.target Compilers: gcc: N/A Packages: rpm: 1825

Shell: Bash v: 5.0.17 running in: mate-terminal inxi: 3.2.00

7.2 Результат выполнения команды 7za b -mm=\*

7-Zip (a) [64] 16.02 : Copyright (c) 1999-2016 Igor Pavlov : 2016-05-21

p7zip Version 16.02 (locale=ru\_RU.UTF-8,Utf16=on,HugeFiles=on,64 bits,8 CPUs Intel(R) Core(TM) i5-8365UE CPU @ 1.60GHz (806EC),ASM,AES-NI)

Intel(R) Core(TM) i5-8365UE CPU @ 1.60GHz (806EC)

CPU Freq: - - - - - - - - -

RAM size: 7810 MB, # CPU hardware threads: 8

RAM usage: 1802 MB, # Benchmark threads: 8

Method Speed Usage R/U Rating E/U Effec

KiB/s % MIPS MIPS % %

CPU 797 3598 28693

CPU 798 3237 25846

CPU 799 2727 21779 100 800

LZMA:x1 52751 783 2464 19284 91 708

165417 797 1690 13473 62 495

LZMA:x5:mt1 13885 790 2196 17346 81 637

164566 797 1742 13879 64 510

LZMA:x5:mt2 14243 788 2257 17794 83 654

166089 797 1757 14007 65 515

Deflate:x1 153007 790 2459 19428 90 714

542563 798 2114 16859 78 619

Deflate:x5 48317 790 2354 18604 86 683

542782 797 2113 16852 78 619

Deflate:x7 18601 793 2599 20610 95 757

548107 797 2134 17010 78 625

Deflate64:x5 42495 787 2335 18364 86 675

543499 798 2131 17003 78 625

BZip2:x1 26566 794 2020 16051 74 590

135702 797 1847 14711 68 540

BZip2:x5 18855 793 1984 15736 73 578

72115 796 1778 14155 65 520

BZip2:x5:mt2 20277 787 2151 16923 79 622

90199 790 2241 17704 82 650

BZip2:x7 6398 784 2113 16577 78 609

72439 796 1785 14206 66 522

PPMD:x1 15643 795 2034 16179 75 594

15691 795 2324 18478 85 679

PPMD:x5 10284 794 2196 17430 81 640

10475 794 2473 19629 91 721

Delta:4 3061271 795 2367 18808 87 691

3032949 796 2340 18634 86 684

BCJ 6059202 793 3128 24818 115 912

6104662 794 3148 25005 116 918

AES256CBC:1 649381 795 2008 15959 74 586

575739 798 1774 14149 65 520

AES256CBC:2 5027670 797 5167 41187 190 1513

10318318 792 2668 21132 98 776

CRC32:1 2643952 798 2411 19248 89 707

CRC32:4 7723418 798 2159 17239 79 633

CRC32:8 11418186 798 1939 15483 71 569

CRC64 6735170 799 1727 13794 63 507

SHA256 578352 797 1480 11798 54 433

SHA1 1683604 796 1979 15759 73 579

BLAKE2sp

CPU 799 2724 21756

------------------------------------------------------

Tot: 793 2057 16309 76 599

7.3 Результат выполнения команды mtr -rw -c 3

Start: 2021-07-23T16:17:29+0300

HOST: localhost.localdomain Loss% Snt Last Avg Best Wrst StDev

1.|-- \_gateway 0.0% 3 0.6 0.7 0.6 0.7 0.1

7.4 Результат выполнения команды dmidecode для возможных устройств

# dmidecode 3.2

Getting SMBIOS data from sysfs.

SMBIOS 3.2.0 present.

Table at 0x8C9C1000.

Handle 0x0000, DMI type 0, 26 bytes

BIOS Information

Vendor: American Megatrends Inc.

Version: 5.13

Release Date: 10/23/2019

Address: 0xF0000

Runtime Size: 64 kB

ROM Size: 16 MB

Characteristics:

PCI is supported

BIOS is upgradeable

BIOS shadowing is allowed

Boot from CD is supported

Selectable boot is supported

BIOS ROM is socketed

EDD is supported

5.25"/1.2 MB floppy services are supported (int 13h)

3.5"/720 kB floppy services are supported (int 13h)

3.5"/2.88 MB floppy services are supported (int 13h)

Print screen service is supported (int 5h)

8042 keyboard services are supported (int 9h)

Serial services are supported (int 14h)

Printer services are supported (int 17h)

ACPI is supported

USB legacy is supported

BIOS boot specification is supported

Targeted content distribution is supported

UEFI is supported

BIOS Revision: 5.13

Handle 0x0001, DMI type 1, 27 bytes

System Information

Manufacturer: CINCOZE

Product Name: P-2100

Version: 0.0.01.001

Serial Number: Default string

UUID: 03000200-0400-0500-0006-000700080009

Wake-up Type: Power Switch

SKU Number: Default string

Family: Default string

Handle 0x0002, DMI type 2, 15 bytes

Base Board Information

Manufacturer: CINCOZE

Product Name: P-2100

Version: 0.0.01.001

Serial Number: Default string

Asset Tag: Default string

Features:

Board is a hosting board

Board is replaceable

Location In Chassis: Default string

Chassis Handle: 0x0003

Type: Motherboard

Contained Object Handles: 0

Handle 0x0003, DMI type 3, 22 bytes

Chassis Information

Manufacturer: Default string

Type: Desktop

Lock: Not Present

Version: Default string

Serial Number: Default string

Asset Tag: Default string

Boot-up State: Safe

Power Supply State: Safe

Thermal State: Safe

Security Status: None

OEM Information: 0x00000000

Height: Unspecified

Number Of Power Cords: 1

Contained Elements: 0

SKU Number: Default string

Handle 0x0004, DMI type 8, 9 bytes

Port Connector Information

Internal Reference Designator: J1A1

Internal Connector Type: None

External Reference Designator: PS2Mouse

External Connector Type: PS/2

Port Type: Mouse Port

Handle 0x0005, DMI type 8, 9 bytes

Port Connector Information

Internal Reference Designator: J1A1

Internal Connector Type: None

External Reference Designator: Keyboard

External Connector Type: PS/2

Port Type: Keyboard Port

Handle 0x0006, DMI type 8, 9 bytes

Port Connector Information

Internal Reference Designator: J2A1

Internal Connector Type: None

External Reference Designator: TV Out

External Connector Type: Mini Centronics Type-14

Port Type: Other

Handle 0x0007, DMI type 8, 9 bytes

Port Connector Information

Internal Reference Designator: J2A2A

Internal Connector Type: None

External Reference Designator: COM A

External Connector Type: DB-9 male

Port Type: Serial Port 16550A Compatible

Handle 0x0008, DMI type 8, 9 bytes

Port Connector Information

Internal Reference Designator: J2A2B

Internal Connector Type: None

External Reference Designator: Video

External Connector Type: DB-15 female

Port Type: Video Port

Handle 0x0009, DMI type 8, 9 bytes

Port Connector Information

Internal Reference Designator: J3A1

Internal Connector Type: None

External Reference Designator: USB1

External Connector Type: Access Bus (USB)

Port Type: USB

Handle 0x000A, DMI type 8, 9 bytes

Port Connector Information

Internal Reference Designator: J3A1

Internal Connector Type: None

External Reference Designator: USB2

External Connector Type: Access Bus (USB)

Port Type: USB

Handle 0x000B, DMI type 8, 9 bytes

Port Connector Information

Internal Reference Designator: J3A1

Internal Connector Type: None

External Reference Designator: USB3

External Connector Type: Access Bus (USB)

Port Type: USB

Handle 0x000C, DMI type 8, 9 bytes

Port Connector Information

Internal Reference Designator: J9A1 - TPM HDR

Internal Connector Type: Other

External Reference Designator: Not Specified

External Connector Type: None

Port Type: Other

Handle 0x000D, DMI type 8, 9 bytes

Port Connector Information

Internal Reference Designator: J9C1 - PCIE DOCKING CONN

Internal Connector Type: Other

External Reference Designator: Not Specified

External Connector Type: None

Port Type: Other

Handle 0x000E, DMI type 8, 9 bytes

Port Connector Information

Internal Reference Designator: J2B3 - CPU FAN

Internal Connector Type: Other

External Reference Designator: Not Specified

External Connector Type: None

Port Type: Other

Handle 0x000F, DMI type 8, 9 bytes

Port Connector Information

Internal Reference Designator: J6C2 - EXT HDMI

Internal Connector Type: Other

External Reference Designator: Not Specified

External Connector Type: None

Port Type: Other

Handle 0x0010, DMI type 8, 9 bytes

Port Connector Information

Internal Reference Designator: J3C1 - GMCH FAN

Internal Connector Type: Other

External Reference Designator: Not Specified

External Connector Type: None

Port Type: Other

Handle 0x0011, DMI type 8, 9 bytes

Port Connector Information

Internal Reference Designator: J1D1 - ITP

Internal Connector Type: Other

External Reference Designator: Not Specified

External Connector Type: None

Port Type: Other

Handle 0x0012, DMI type 8, 9 bytes

Port Connector Information

Internal Reference Designator: J9E2 - MDC INTPSR

Internal Connector Type: Other

External Reference Designator: Not Specified

External Connector Type: None

Port Type: Other

Handle 0x0013, DMI type 8, 9 bytes

Port Connector Information

Internal Reference Designator: J9E4 - MDC INTPSR

Internal Connector Type: Other

External Reference Designator: Not Specified

External Connector Type: None

Port Type: Other

Handle 0x0014, DMI type 8, 9 bytes

Port Connector Information

Internal Reference Designator: J9E3 - LPC HOT DOCKING

Internal Connector Type: Other

External Reference Designator: Not Specified

External Connector Type: None

Port Type: Other

Handle 0x0015, DMI type 8, 9 bytes

Port Connector Information

Internal Reference Designator: J9E1 - SCAN MATRIX

Internal Connector Type: Other

External Reference Designator: Not Specified

External Connector Type: None

Port Type: Other

Handle 0x0016, DMI type 8, 9 bytes

Port Connector Information

Internal Reference Designator: J9G1 - LPC SIDE BAND

Internal Connector Type: Other

External Reference Designator: Not Specified

External Connector Type: None

Port Type: Other

Handle 0x0017, DMI type 8, 9 bytes

Port Connector Information

Internal Reference Designator: J8F1 - UNIFIED

Internal Connector Type: Other

External Reference Designator: Not Specified

External Connector Type: None

Port Type: Other

Handle 0x0018, DMI type 8, 9 bytes

Port Connector Information

Internal Reference Designator: J6F1 - LVDS

Internal Connector Type: Other

External Reference Designator: Not Specified

External Connector Type: None

Port Type: Other

Handle 0x0019, DMI type 8, 9 bytes

Port Connector Information

Internal Reference Designator: J2F1 - LAI FAN

Internal Connector Type: Other

External Reference Designator: Not Specified

External Connector Type: None

Port Type: Other

Handle 0x001A, DMI type 8, 9 bytes

Port Connector Information

Internal Reference Designator: J2G1 - GFX VID

Internal Connector Type: Other

External Reference Designator: Not Specified

External Connector Type: None

Port Type: Other

Handle 0x001B, DMI type 8, 9 bytes

Port Connector Information

Internal Reference Designator: J1G6 - AC JACK

Internal Connector Type: Other

External Reference Designator: Not Specified

External Connector Type: None

Port Type: Other

Handle 0x001C, DMI type 9, 17 bytes

System Slot Information

Designation: J6B2

Type: x16 PCI Express

Current Usage: In Use

Length: Long

ID: 0

Characteristics:

3.3 V is provided

Opening is shared

PME signal is supported

Bus Address: 0000:00:01.0

Handle 0x001D, DMI type 9, 17 bytes

System Slot Information

Designation: J6B1

Type: x1 PCI Express

Current Usage: In Use

Length: Short

ID: 1

Characteristics:

3.3 V is provided

Opening is shared

PME signal is supported

Bus Address: 0000:00:1c.3

Handle 0x001E, DMI type 9, 17 bytes

System Slot Information

Designation: J6D1

Type: x1 PCI Express

Current Usage: In Use

Length: Short

ID: 2

Characteristics:

3.3 V is provided

Opening is shared

PME signal is supported

Bus Address: 0000:00:1c.4

Handle 0x001F, DMI type 9, 17 bytes

System Slot Information

Designation: J7B1

Type: x1 PCI Express

Current Usage: In Use

Length: Short

ID: 3

Characteristics:

3.3 V is provided

Opening is shared

PME signal is supported

Bus Address: 0000:00:1c.5

Handle 0x0020, DMI type 9, 17 bytes

System Slot Information

Designation: J8B4

Type: x1 PCI Express

Current Usage: In Use

Length: Short

ID: 4

Characteristics:

3.3 V is provided

Opening is shared

PME signal is supported

Bus Address: 0000:00:1c.6

Handle 0x0021, DMI type 10, 6 bytes

On Board Device Information

Type: Video

Status: Enabled

Description: To Be Filled By O.E.M.

Handle 0x0022, DMI type 11, 5 bytes

OEM Strings

String 1: Default string

Handle 0x0023, DMI type 12, 5 bytes

System Configuration Options

Option 1: Default string

Handle 0x0024, DMI type 32, 20 bytes

System Boot Information

Status: No errors detected

Handle 0x0025, DMI type 34, 11 bytes

Management Device

Description: LM78-1

Type: LM78

Address: 0x00000000

Address Type: I/O Port

Handle 0x0026, DMI type 26, 22 bytes

Voltage Probe

Description: LM78A

Location: Motherboard

Status: OK

Maximum Value: Unknown

Minimum Value: Unknown

Resolution: Unknown

Tolerance: Unknown

Accuracy: Unknown

OEM-specific Information: 0x00000000

Nominal Value: Unknown

Handle 0x0027, DMI type 36, 16 bytes

Management Device Threshold Data

Lower Non-critical Threshold: 1

Upper Non-critical Threshold: 2

Lower Critical Threshold: 3

Upper Critical Threshold: 4

Lower Non-recoverable Threshold: 5

Upper Non-recoverable Threshold: 6

Handle 0x0028, DMI type 35, 11 bytes

Management Device Component

Description: Default string

Management Device Handle: 0x0025

Component Handle: 0x0026

Threshold Handle: 0x0027

Handle 0x0029, DMI type 28, 22 bytes

Temperature Probe

Description: LM78A

Location: Motherboard

Status: OK

Maximum Value: Unknown

Minimum Value: Unknown

Resolution: Unknown

Tolerance: Unknown

Accuracy: Unknown

OEM-specific Information: 0x00000000

Nominal Value: Unknown

Handle 0x002A, DMI type 36, 16 bytes

Management Device Threshold Data

Lower Non-critical Threshold: 1

Upper Non-critical Threshold: 2

Lower Critical Threshold: 3

Upper Critical Threshold: 4

Lower Non-recoverable Threshold: 5

Upper Non-recoverable Threshold: 6

Handle 0x002B, DMI type 35, 11 bytes

Management Device Component

Description: Default string

Management Device Handle: 0x0025

Component Handle: 0x0029

Threshold Handle: 0x002A

Handle 0x002C, DMI type 27, 15 bytes

Cooling Device

Temperature Probe Handle: 0x0029

Type: Power Supply Fan

Status: OK

Cooling Unit Group: 1

OEM-specific Information: 0x00000000

Nominal Speed: Unknown Or Non-rotating

Description: Cooling Dev 1

Handle 0x002D, DMI type 36, 16 bytes

Management Device Threshold Data

Lower Non-critical Threshold: 1

Upper Non-critical Threshold: 2

Lower Critical Threshold: 3

Upper Critical Threshold: 4

Lower Non-recoverable Threshold: 5

Upper Non-recoverable Threshold: 6

Handle 0x002E, DMI type 35, 11 bytes

Management Device Component

Description: Default string

Management Device Handle: 0x0025

Component Handle: 0x002C

Threshold Handle: 0x002D

Handle 0x002F, DMI type 27, 15 bytes

Cooling Device

Temperature Probe Handle: 0x0029

Type: Power Supply Fan

Status: OK

Cooling Unit Group: 1

OEM-specific Information: 0x00000000

Nominal Speed: Unknown Or Non-rotating

Description: Not Specified

Handle 0x0030, DMI type 36, 16 bytes

Management Device Threshold Data

Lower Non-critical Threshold: 1

Upper Non-critical Threshold: 2

Lower Critical Threshold: 3

Upper Critical Threshold: 4

Lower Non-recoverable Threshold: 5

Upper Non-recoverable Threshold: 6

Handle 0x0031, DMI type 35, 11 bytes

Management Device Component

Description: Default string

Management Device Handle: 0x0025

Component Handle: 0x002F

Threshold Handle: 0x0030

Handle 0x0032, DMI type 29, 22 bytes

Electrical Current Probe

Description: ABC

Location: Motherboard

Status: OK

Maximum Value: Unknown

Minimum Value: Unknown

Resolution: Unknown

Tolerance: Unknown

Accuracy: Unknown

OEM-specific Information: 0x00000000

Nominal Value: Unknown

Handle 0x0033, DMI type 36, 16 bytes

Management Device Threshold Data

Handle 0x0034, DMI type 35, 11 bytes

Management Device Component

Description: Default string

Management Device Handle: 0x0025

Component Handle: 0x0032

Threshold Handle: 0x0033

Handle 0x0035, DMI type 26, 22 bytes

Voltage Probe

Description: LM78A

Location: Power Unit

Status: OK

Maximum Value: Unknown

Minimum Value: Unknown

Resolution: Unknown

Tolerance: Unknown

Accuracy: Unknown

OEM-specific Information: 0x00000000

Nominal Value: Unknown

Handle 0x0036, DMI type 28, 22 bytes

Temperature Probe

Description: LM78A

Location: Power Unit

Status: OK

Maximum Value: Unknown

Minimum Value: Unknown

Resolution: Unknown

Tolerance: Unknown

Accuracy: Unknown

OEM-specific Information: 0x00000000

Nominal Value: Unknown

Handle 0x0037, DMI type 27, 15 bytes

Cooling Device

Temperature Probe Handle: 0x0036

Type: Power Supply Fan

Status: OK

Cooling Unit Group: 1

OEM-specific Information: 0x00000000

Nominal Speed: Unknown Or Non-rotating

Description: Cooling Dev 1

Handle 0x0038, DMI type 29, 22 bytes

Electrical Current Probe

Description: ABC

Location: Power Unit

Status: OK

Maximum Value: Unknown

Minimum Value: Unknown

Resolution: Unknown

Tolerance: Unknown

Accuracy: Unknown

OEM-specific Information: 0x00000000

Nominal Value: Unknown

Handle 0x0039, DMI type 39, 22 bytes

System Power Supply

Power Unit Group: 1

Location: To Be Filled By O.E.M.

Name: To Be Filled By O.E.M.

Manufacturer: To Be Filled By O.E.M.

Serial Number: To Be Filled By O.E.M.

Asset Tag: To Be Filled By O.E.M.

Model Part Number: To Be Filled By O.E.M.

Revision: To Be Filled By O.E.M.

Max Power Capacity: Unknown

Status: Present, OK

Type: Switching

Input Voltage Range Switching: Auto-switch

Plugged: Yes

Hot Replaceable: No

Input Voltage Probe Handle: 0x0035

Cooling Device Handle: 0x0037

Input Current Probe Handle: 0x0038

Handle 0x003A, DMI type 16, 23 bytes

Physical Memory Array

Location: System Board Or Motherboard

Use: System Memory

Error Correction Type: None

Maximum Capacity: 32 GB

Error Information Handle: Not Provided

Number Of Devices: 2

Handle 0x003D, DMI type 19, 31 bytes

Memory Array Mapped Address

Starting Address: 0x00000000000

Ending Address: 0x001FFFFFFFF

Range Size: 8 GB

Physical Array Handle: 0x003A

Partition Width: 1

Handle 0x003E, DMI type 221, 26 bytes

OEM-specific Type

Header and Data:

DD 1A 3E 00 03 01 00 07 00 65 40 00 02 00 00 00

00 B8 00 03 00 01 05 00 00 00

Strings:

Reference Code - CPU

uCode Version

TXT ACM version

Handle 0x003F, DMI type 221, 26 bytes

OEM-specific Type

Header and Data:

DD 1A 3F 00 03 01 00 07 00 65 40 00 02 00 0C 00

00 0A 00 03 04 0C 00 23 93 05

Strings:

Reference Code - ME

MEBx version

ME Firmware Version

Corporate SKU

Handle 0x0040, DMI type 221, 82 bytes

OEM-specific Type

Header and Data:

DD 52 40 00 0B 01 00 07 00 65 40 00 02 03 FF FF

FF FF FF 04 00 FF FF FF 30 00 05 00 FF FF FF 30

00 06 00 FF FF FF FF FF 07 00 02 00 00 00 00 08

00 09 00 00 00 00 09 00 0A 00 00 00 00 0A 00 07

00 00 00 00 0B 00 06 00 00 00 00 0C 00 07 00 00

00 00

Strings:

Reference Code - CNL PCH

PCH-CRID Status

Disabled

PCH-CRID Original Value

PCH-CRID New Value

OPROM - RST - RAID

CNL PCH H A0 Hsio Version

CNL PCH H Ax Hsio Version

CNL PCH H Bx Hsio Version

CNL PCH LP B0 Hsio Version

CNL PCH LP Bx Hsio Version

CNL PCH LP Dx Hsio Version

Handle 0x0041, DMI type 221, 54 bytes

OEM-specific Type

Header and Data:

DD 36 41 00 07 01 00 07 00 65 40 00 02 00 00 07

01 6E 00 03 00 07 00 65 40 00 04 05 FF FF FF FF

FF 06 00 00 00 00 0C 00 07 00 00 00 00 0C 00 08

00 FF FF FF FF FF

Strings:

Reference Code - SA - System Agent

Reference Code - MRC

SA - PCIe Version

SA-CRID Status

Disabled

SA-CRID Original Value

SA-CRID New Value

OPROM - VBIOS

Handle 0x0042, DMI type 221, 12 bytes

OEM-specific Type

Header and Data:

DD 0C 42 00 01 01 00 04 00 00 00 00

Strings:

FSP Binary Version

Handle 0x0043, DMI type 7, 27 bytes

Cache Information

Socket Designation: L1 Cache

Configuration: Enabled, Not Socketed, Level 1

Operational Mode: Write Back

Location: Internal

Installed Size: 256 kB

Maximum Size: 256 kB

Supported SRAM Types:

Synchronous

Installed SRAM Type: Synchronous

Speed: Unknown

Error Correction Type: Parity

System Type: Unified

Associativity: 8-way Set-associative

Handle 0x0044, DMI type 7, 27 bytes

Cache Information

Socket Designation: L2 Cache

Configuration: Enabled, Not Socketed, Level 2

Operational Mode: Write Back

Location: Internal

Installed Size: 1 MB

Maximum Size: 1 MB

Supported SRAM Types:

Synchronous

Installed SRAM Type: Synchronous

Speed: Unknown

Error Correction Type: Single-bit ECC

System Type: Unified

Associativity: 4-way Set-associative

Handle 0x0045, DMI type 7, 27 bytes

Cache Information

Socket Designation: L3 Cache

Configuration: Enabled, Not Socketed, Level 3

Operational Mode: Write Back

Location: Internal

Installed Size: 6 MB

Maximum Size: 6 MB

Supported SRAM Types:

Synchronous

Installed SRAM Type: Synchronous

Speed: Unknown

Error Correction Type: Multi-bit ECC

System Type: Unified

Associativity: 12-way Set-associative

Handle 0x0046, DMI type 4, 48 bytes

Processor Information

Socket Designation: U3E1

Type: Central Processor

Family: Core i5

Manufacturer: Intel(R) Corporation

ID: EC 06 08 00 FF FB EB BF

Signature: Type 0, Family 6, Model 142, Stepping 12

Flags:

FPU (Floating-point unit on-chip)

VME (Virtual mode extension)

DE (Debugging extension)

PSE (Page size extension)

TSC (Time stamp counter)

MSR (Model specific registers)

PAE (Physical address extension)

MCE (Machine check exception)

CX8 (CMPXCHG8 instruction supported)

APIC (On-chip APIC hardware supported)

SEP (Fast system call)

MTRR (Memory type range registers)

PGE (Page global enable)

MCA (Machine check architecture)

CMOV (Conditional move instruction supported)

PAT (Page attribute table)

PSE-36 (36-bit page size extension)

CLFSH (CLFLUSH instruction supported)

DS (Debug store)

ACPI (ACPI supported)

MMX (MMX technology supported)

FXSR (FXSAVE and FXSTOR instructions supported)

SSE (Streaming SIMD extensions)

SSE2 (Streaming SIMD extensions 2)

SS (Self-snoop)

HTT (Multi-threading)

TM (Thermal monitor supported)

PBE (Pending break enabled)

Version: Intel(R) Core(TM) i5-8365UE CPU @ 1.60GHz

Voltage: 0.7 V

External Clock: 100 MHz

Max Speed: 8300 MHz

Current Speed: 1485 MHz

Status: Populated, Enabled

Upgrade: Socket BGA1528

L1 Cache Handle: 0x0043

L2 Cache Handle: 0x0044

L3 Cache Handle: 0x0045

Serial Number: To Be Filled By O.E.M.

Asset Tag: To Be Filled By O.E.M.

Part Number: To Be Filled By O.E.M.

Core Count: 4

Core Enabled: 4

Thread Count: 8

Characteristics:

64-bit capable

Multi-Core

Hardware Thread

Execute Protection

Enhanced Virtualization

Power/Performance Control

Handle 0x0047, DMI type 17, 84 bytes

Memory Device

Array Handle: 0x003A

Error Information Handle: Not Provided

Total Width: 64 bits

Data Width: 64 bits

Size: 8 GB

Form Factor: SODIMM

Set: None

Locator: ChannelA-DIMM0

Bank Locator: BANK 0

Type: DDR4

Type Detail: Synchronous

Speed: 2667 MT/s

Manufacturer: 8AD3

Serial Number: 00000000

Asset Tag: 9876543210

Part Number: CIR-S4SUSW2608G

Rank: 1

Configured Memory Speed: 2400 MT/s

Minimum Voltage: 1.2 V

Maximum Voltage: 1.2 V

Configured Voltage: 1.2 V

Memory Technology: DRAM

Memory Operating Mode Capability: Volatile memory

Firmware Version: Not Specified

Module Manufacturer ID: Bank 11, Hex 0xD3

Module Product ID: Unknown

Memory Subsystem Controller Manufacturer ID: Unknown

Memory Subsystem Controller Product ID: Unknown

Non-Volatile Size: None

Volatile Size: 8 GB

Cache Size: None

Logical Size: None

Handle 0x0048, DMI type 17, 84 bytes

Memory Device

Array Handle: 0x003A

Error Information Handle: Not Provided

Total Width: Unknown

Data Width: Unknown

Size: No Module Installed

Form Factor: Unknown

Set: None

Locator: ChannelB-DIMM0

Bank Locator: BANK 2

Type: Unknown

Type Detail: None

Speed: Unknown

Manufacturer: Not Specified

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: Not Specified

Rank: Unknown

Configured Memory Speed: Unknown

Minimum Voltage: Unknown

Maximum Voltage: Unknown

Configured Voltage: Unknown

Memory Technology: <OUT OF SPEC>

Memory Operating Mode Capability: None

Firmware Version: Not Specified

Module Manufacturer ID: Unknown

Module Product ID: Unknown

Memory Subsystem Controller Manufacturer ID: Unknown

Memory Subsystem Controller Product ID: Unknown

Non-Volatile Size: None

Volatile Size: None

Cache Size: None

Logical Size: None

Handle 0x0049, DMI type 20, 35 bytes

Memory Device Mapped Address

Starting Address: 0x00000000000

Ending Address: 0x001FFFFFFFF

Range Size: 8 GB

Physical Device Handle: 0x0047

Memory Array Mapped Address Handle: 0x003D

Partition Row Position: Unknown

Handle 0x004A, DMI type 130, 20 bytes

OEM-specific Type

Header and Data:

82 14 4A 00 24 41 4D 54 01 01 01 01 01 A5 AF 02

C0 00 01 00

Handle 0x004B, DMI type 131, 64 bytes

OEM-specific Type

Header and Data:

83 40 4B 00 35 00 00 00 0C 00 00 00 00 00 0A 00

F8 00 84 9D 00 00 00 00 09 C0 00 00 00 00 0C 00

93 05 23 00 00 00 00 00 FE 00 BB 15 00 00 00 00

00 00 00 00 26 00 00 00 76 50 72 6F 00 00 00 00

Handle 0x004C, DMI type 13, 22 bytes

BIOS Language Information

Language Description Format: Long

Installable Languages: 1

en|US|iso8859-1

Currently Installed Language: en|US|iso8859-1

Handle 0x004D, DMI type 41, 11 bytes

Onboard Device

Reference Designation: Onboard - Other

Type: Other

Status: Enabled

Type Instance: 1

Bus Address: 0000:00:00.0

Handle 0x004E, DMI type 41, 11 bytes

Onboard Device

Reference Designation: Onboard - Video

Type: Video

Status: Enabled

Type Instance: 1

Bus Address: 0000:00:02.0

Handle 0x004F, DMI type 41, 11 bytes

Onboard Device

Reference Designation: Onboard - Other

Type: Other

Status: Enabled

Type Instance: 2

Bus Address: 0000:00:08.0

Handle 0x0050, DMI type 41, 11 bytes

Onboard Device

Reference Designation: Onboard - Other

Type: Other

Status: Enabled

Type Instance: 3

Bus Address: 0000:00:12.0

Handle 0x0051, DMI type 41, 11 bytes

Onboard Device

Reference Designation: Onboard - Other

Type: Other

Status: Enabled

Type Instance: 4

Bus Address: 0000:00:14.0

Handle 0x0052, DMI type 41, 11 bytes

Onboard Device

Reference Designation: Onboard - Other

Type: Other

Status: Enabled

Type Instance: 5

Bus Address: 0000:00:14.2

Handle 0x0053, DMI type 41, 11 bytes

Onboard Device

Reference Designation: Onboard - Other

Type: Other

Status: Enabled

Type Instance: 6

Bus Address: 0000:00:16.0

Handle 0x0054, DMI type 41, 11 bytes

Onboard Device

Reference Designation: Onboard - SATA

Type: SATA Controller

Status: Enabled

Type Instance: 1

Bus Address: 0000:00:17.0

Handle 0x0055, DMI type 41, 11 bytes

Onboard Device

Reference Designation: Onboard - Other

Type: Other

Status: Enabled

Type Instance: 7

Bus Address: 0000:00:1f.0

Handle 0x0056, DMI type 41, 11 bytes

Onboard Device

Reference Designation: Onboard - Sound

Type: Sound

Status: Enabled

Type Instance: 1

Bus Address: 0000:00:1f.3

Handle 0x0057, DMI type 41, 11 bytes

Onboard Device

Reference Designation: Onboard - Other

Type: Other

Status: Enabled

Type Instance: 8

Bus Address: 0000:00:1f.4

Handle 0x0058, DMI type 41, 11 bytes

Onboard Device

Reference Designation: Onboard - Other

Type: Other

Status: Enabled

Type Instance: 9

Bus Address: 0000:00:1f.5

Handle 0x0059, DMI type 41, 11 bytes

Onboard Device

Reference Designation: Onboard - Ethernet

Type: Ethernet

Status: Enabled

Type Instance: 1

Bus Address: 0000:00:1f.6

Handle 0x005A, DMI type 221, 89 bytes

OEM-specific Type

Header and Data:

DD 59 5A 00 0C 01 00 00 00 00 A6 00 02 00 FF FF

FF FF FF 03 04 FF FF FF FF FF 05 06 FF FF FF FF

FF 07 08 FF FF FF FF FF 09 00 00 00 00 00 00 0A

00 FF FF FF FF FF 0B 00 FF FF 00 00 00 0C 00 FF

FF FF FF FF 0D 0E 01 04 03 00 00 0F 00 00 07 00

00 00 10 00 00 02 00 0E 00

Strings:

Lan Phy Version

Sensor Firmware Version

Debug Mode Status

Disabled

Performance Mode Status

Disabled

Debug Use USB(Disabled:Serial)

Disabled

ICC Overclocking Version

UNDI Version

EC FW Version

GOP Version

Royal Park Version

BP1.4.3.0\_RP03

Platform Version

Client Silicon Version

Handle 0x005B, DMI type 136, 6 bytes

OEM-specific Type

Header and Data:

88 06 5B 00 00 00

Handle 0x005C, DMI type 14, 23 bytes

Group Associations

Name: Firmware Version Info

Items: 6

0x003E (OEM-specific)

0x003F (OEM-specific)

0x0040 (OEM-specific)

0x0041 (OEM-specific)

0x0042 (OEM-specific)

0x005A (OEM-specific)

Handle 0x005D, DMI type 14, 8 bytes

Group Associations

Name: $MEI

Items: 1

0x0000 (OEM-specific)

Handle 0x005E, DMI type 219, 106 bytes

OEM-specific Type

Header and Data:

DB 6A 5E 00 01 04 01 55 02 00 90 06 81 10 89 30

00 00 00 00 40 00 00 00 00 00 00 02 00 40 00 02

FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

FF FF FF FF FF FF FF FF 03 00 00 00 80 00 00 00

00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

00 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00

00 00 00 00 00 00 00 00 00 00

Strings:

MEI1

MEI2

MEI3

MEI4

Handle 0x005F, DMI type 127, 4 bytes

End Of Table