

HwMonitor

CPUID HwMonitor Report

Binaries

HwMonitor version 1.3.9.0

Monitoring

Mainboard Model 8275 (0x000000D6 - 0x00002308)

LPCIO

Hardware Monitors

Hardware monitor NS LM87
Register space SMBus, base address = 0x0FFC0
SMBus request channel 0x0, address 0x2C

Table with 16 columns (00-0F) and 16 rows (00-F0) showing sensor status. Most cells contain 'ER', while the first cell (00) contains '1C' and the last cell (F0) contains '01'.

Hardware monitor ACPI
Temperature 0 40 degC (104 degF) [0xC3C] (CPUZ)
Temperature 1 35 degC (95 degF) [0xC0A] (GFXZ)
Temperature 2 34 degC (93 degF) [0xC00] (EXTZ)
Temperature 3 35 degC (95 degF) [0xC0A] (LOCZ)
Temperature 4 27 degC (80 degF) [0xBBA] (BATZ)
Temperature 5 30 degC (86 degF) [0xBD8] (CHGZ)
Temperature 6 n.a. [0xAAC] (PCHZ)
Temperature 7 n.a. [0xAAC] (DM1Z)
Temperature 8 n.a. [0xAAC] (DM2Z)
Temperature 9 0 degC (32 degF) [0x0] (PCH)

HWMonitor

Hardware monitor	Battery
Voltage 0	11.53 Volts [0x2D0D] (Current Voltage)
Capacity 0	86925 mWh [0x1538D] (Designed Capacity)
Capacity 1	86925 mWh [0x1538D] (Full Charge Capacity)
Capacity 2	65402 mWh [0xFF7A] (Current Capacity)
Level 0	0 pc [0x64] (Wear Level)
Level 1	75 pc [0x4B] (Charge Level)

Hardware monitor	D3D
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Hardware monitor	NVIDIA NVAPI
Temperature 0	34 degC (93 degF) [0x22] (GPU)

Hardware monitor	D3D
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Hardware monitor	Intel I/O
Temperature 0	38 degC (100 degF) [0x26] (GPU)
Clock Speed 0	0.00 MHz [0x0] (Graphics)

Processors

Number of sockets	1
Number of threads	8

APICs

Socket 0

-- Core 0 (ID 0)	
-- Thread 0	0
-- Thread 1	1
-- Core 1 (ID 1)	
-- Thread 2	2
-- Thread 3	3
-- Core 2 (ID 2)	
-- Thread 4	4
-- Thread 5	5
-- Core 3 (ID 3)	
-- Thread 6	6
-- Thread 7	7

Timers

ACPI timer	3.580 MHz
Perf timer	2.742 MHz
Sys timer	1.000 KHz

HwMonitor

Processors Information

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-----
Socket 1                                ID = 0
  Number of cores                        4 (max 4)
  Number of threads                      8 (max 8)
  Name                                    Intel Core i7 7700HQ
  Codename                                Kaby Lake
  Specification                           Intel(R) Core(TM) i7-7700HQ CPU @ 2.80GHz
  Package (platform ID)                  Socket 1440 FCBGA (0x5)
  CPUID                                   6.E.9
  Extended CPUID                          6.9E
  Core Stepping                           B0
  Technology                               14 nm
  TDP Limit                               45.0 Watts
  Tjmax                                   100.0 °C
  Core Speed                              2794.5 MHz
  Multiplier x Bus Speed                  28.0 x 99.8 MHz
  Base frequency (cores)                  99.8 MHz
  Base frequency (ext.)                   99.8 MHz
  Stock frequency                         2800 MHz
  Max frequency                           3800 MHz
  Instructions sets                       MMX, SSE, SSE2, SSE3, SSSE3, SSE4.1, SSE4.2,
EM64T, VT-x, AES, AVX, AVX2, FMA3
  Microcode Revision                      0x8E
  L1 Data cache                           4 x 32 KBytes, 8-way set associative, 64-byte
line size
  L1 Instruction cache                    4 x 32 KBytes, 8-way set associative, 64-byte
line size
  L2 cache                                4 x 256 KBytes, 4-way set associative, 64-byte
line size
  L3 cache                                6 MBytes, 12-way set associative, 64-byte line
size
  Max CPUID level                         00000016h
  Max CPUID ext. level                    80000008h
  Cache descriptor                        Level 1, D, 32 KB, 2 thread(s)
  Cache descriptor                        Level 1, I, 32 KB, 2 thread(s)
  Cache descriptor                        Level 2, U, 256 KB, 2 thread(s)
  Cache descriptor                        Level 3, U, 6 MB, 16 thread(s)
  FID/VID Control                         yes

  IBRS                                    supported, disabled
  IBPB                                    supported
  STIBP                                   supported, disabled
  RDCL_NO                                  no
  IBRS_ALL                                 not supported
  Turbo Mode                              supported, enabled
  Max non-turbo ratio                     28x
  Max turbo ratio                         38x
  Max efficiency ratio                    8x
  Speedshift                              Autonomous

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O/C bins	none
Ratio 1 core	38x
Ratio 2 cores	36x
Ratio 3 cores	35x
Ratio 4 cores	34x
IA Voltage Mode	PCU adaptive
IA Voltage Offset	0 mV
GT Voltage Mode	PCU adaptive
GT Voltage Offset	0 mV
LLC/Ring Voltage Mode	PCU adaptive
LLC/Ring Voltage Offset	0 mV
Agent Voltage Mode	PCU adaptive
Agent Voltage Offset	0 mV
TDP Level	45.0 W @ 28x
TDP Level	35.0 W @ 17x
Temperature 0	42 degC (107 degF) (Package)
Temperature 1	40 degC (104 degF) (Core #0)
Temperature 2	42 degC (107 degF) (Core #1)
Temperature 3	41 degC (105 degF) (Core #2)
Temperature 4	40 degC (104 degF) (Core #3)
Voltage 0	+0.00 Volts (IA Offset)
Voltage 1	+0.00 Volts (GT Offset)
Voltage 2	+0.00 Volts (LLC/Ring Offset)
Voltage 3	+0.00 Volts (System Agent Offset)
Voltage 4	0.96 Volts (VID #0)
Voltage 5	0.95 Volts (VID #1)
Voltage 6	0.94 Volts (VID #2)
Voltage 7	0.95 Volts (VID #3)
Power 00	6.32 W (Package)
Power 01	3.84 W (IA Cores)
Power 02	0.03 W (GT)
Power 03	2.45 W (Uncore)
Power 04	0.64 W (DRAM)
Clock Speed 0	2794.54 MHz (Core #0)
Clock Speed 1	1596.88 MHz (Core #1)
Clock Speed 2	1596.88 MHz (Core #2)
Clock Speed 3	1596.88 MHz (Core #3)
Core 0 max ratio	38.0 (effective 31.0)
Core 1 max ratio	38.0 (effective 31.0)
Core 2 max ratio	38.0 (effective 31.0)
Core 3 max ratio	38.0 (effective 30.0)

Thread dumps

CPU Thread 0

APIC ID	0
Topology	Processor ID 0, Core ID 0, Thread ID 0
CPUID	

	HwMonitor		
0x00000000	0x00000016	0x756E6547	0x6C65746E
0x49656E69			
0x00000001	0x000906E9	0x00100800	0x7FFAFBBF
0xBFEBFBFF			
0x00000002	0x76036301	0x00F0B5FF	0x00000000
0x00C30000			
0x00000003	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000004	0x1C004121	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004122	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004143	0x00C0003F	0x000003FF
0x00000000			
0x00000004	0x1C03C163	0x02C0003F	0x00001FFF
0x00000006			
0x00000005	0x00000040	0x00000040	0x00000003
0x11142120			
0x00000006	0x000027F7	0x00000002	0x00000009
0x00000000			
0x00000007	0x00000000	0x029C67AF	0x00000000
0x9C000000			
0x00000008	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000009	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000A	0x07300404	0x00000000	0x00000000
0x00000603			
0x0000000B	0x00000001	0x00000002	0x00000100
0x00000000			
0x0000000B	0x00000004	0x00000008	0x00000201
0x00000000			
0x0000000C	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000D	0x0000001F	0x00000440	0x00000440
0x00000000			
0x0000000D	0x0000000F	0x00000440	0x00000100
0x00000000			
0x0000000D	0x00000100	0x00000240	0x00000000
0x00000000			
0x0000000D	0x00000040	0x000003C0	0x00000000
0x00000000			
0x0000000D	0x00000040	0x00000400	0x00000000
0x00000000			
0x0000000E	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000F	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000010	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000011	0x00000000	0x00000000	0x00000000
0x00000000			

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0x00000012	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000013	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000014	0x00000001	0x0000000F	0x00000007
0x00000000			
0x00000015	0x00000002	0x000000EA	0x00000000
0x00000000			
0x00000016	0x000000AF0	0x000000ED8	0x00000064
0x00000000			
0x80000000	0x80000008	0x00000000	0x00000000
0x00000000			
0x80000001	0x00000000	0x00000000	0x00000121
0x2C100800			
0x80000002	0x65746E49	0x2952286C	0x726F4320
0x4D542865			
0x80000003	0x37692029	0x3037372D	0x20514830
0x20555043			
0x80000004	0x2E322040	0x48473038	0x0000007A
0x00000000			
0x80000005	0x00000000	0x00000000	0x00000000
0x00000000			
0x80000006	0x00000000	0x00000000	0x01006040
0x00000000			
0x80000007	0x00000000	0x00000000	0x00000000
0x00000100			
0x80000008	0x00003027	0x00000000	0x00000000
0x00000000			

MSR 0x0000001B	0x00000000	0xFEE00900
MSR 0x0000003A	0x00000000	0x00000001
MSR 0x00000048	0x00000000	0x00000002
MSR 0x000001A0	0x00000000	0x00850089
MSR 0x00000770	0x00000000	0x00000001
MSR 0x00000774	0x0000019E	0xB2002601
MSR 0x000000CE	0x0008083B	0xF1011C00
MSR 0x00000017	0x00140000	0x00000000
MSR 0x00000035	0x00000000	0x00040008
MSR 0x000000C1	0x00000000	0x00000000
MSR 0x000000C2	0x00000000	0x00000000
MSR 0x000000C3	0x00000000	0x00000000
MSR 0x000000C4	0x00000000	0x00000000
MSR 0x00000186	0x00000000	0x00000000
MSR 0x00000187	0x00000000	0x00000000
MSR 0x000001AD	0x00000000	0x22232426
MSR 0x00000194	0x00000000	0x00010000
MSR 0x0000019A	0x00000000	0x00000000
MSR 0x000001A4	0x00000000	0x00000000
MSR 0x000001B1	0x00000000	0x88380800
MSR 0x000001FC	0x00000000	0x0024005F
MSR 0x00000606	0x00000000	0x000A0E03
MSR 0x00000601	0x00000000	0x00000000

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MSR 0x00000610	0x004281E0	0x00DD8168
MSR 0x00000611	0x00000000	0x03707BDF
MSR 0x00000639	0x00000000	0x02A93AD4
MSR 0x00000641	0x00000000	0x0009609D
MSR 0x00000619	0x00000000	0x006CB2B9
MSR 0x00000614	0x00000000	0x00000168
MSR 0x00000648	0x00000000	0x0000001C
MSR 0x00000649	0x00000000	0x00110118
MSR 0x0000064A	0x00000000	0x00000000
MSR 0x00000198	0x00001E46	0x00001B00
MSR 0x00000199	0x00000000	0x00001B00

CPU Thread 1

APIC ID 1
 Topology Processor ID 0, Core ID 0, Thread ID 1

CPUID	Processor ID	Core ID	Thread ID
0x00000000	0x00000016	0x756E6547	0x6C65746E
0x49656E69			
0x00000001	0x000906E9	0x01100800	0x7FFAFBBF
0xBFEBFBFF			
0x00000002	0x76036301	0x00F0B5FF	0x00000000
0x00C30000			
0x00000003	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000004	0x1C004121	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004122	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004143	0x00C0003F	0x000003FF
0x00000000			
0x00000004	0x1C03C163	0x02C0003F	0x00001FFF
0x00000006			
0x00000005	0x00000040	0x00000040	0x00000003
0x11142120			
0x00000006	0x000027F7	0x00000002	0x00000009
0x00000000			
0x00000007	0x00000000	0x029C67AF	0x00000000
0x9C000000			
0x00000008	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000009	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000A	0x07300404	0x00000000	0x00000000
0x00000603			
0x0000000B	0x00000001	0x00000002	0x00000100
0x00000001			
0x0000000B	0x00000004	0x00000008	0x00000201
0x00000001			
0x0000000C	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000D	0x0000001F	0x00000440	0x00000440

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0x00000000			
0x0000000D	0x0000000F	0x00000440	0x00000100
0x00000000			
0x0000000D	0x00000100	0x00000240	0x00000000
0x00000000			
0x0000000D	0x00000040	0x000003C0	0x00000000
0x00000000			
0x0000000D	0x00000040	0x00000400	0x00000000
0x00000000			
0x0000000E	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000F	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000010	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000011	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000012	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000013	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000014	0x00000001	0x0000000F	0x00000007
0x00000000			
0x00000015	0x00000002	0x000000EA	0x00000000
0x00000000			
0x00000016	0x00000AF0	0x00000ED8	0x00000064
0x00000000			
0x80000000	0x80000008	0x00000000	0x00000000
0x00000000			
0x80000001	0x00000000	0x00000000	0x00000121
0x2C100800			
0x80000002	0x65746E49	0x2952286C	0x726F4320
0x4D542865			
0x80000003	0x37692029	0x3037372D	0x20514830
0x20555043			
0x80000004	0x2E322040	0x48473038	0x0000007A
0x00000000			
0x80000005	0x00000000	0x00000000	0x00000000
0x00000000			
0x80000006	0x00000000	0x00000000	0x01006040
0x00000000			
0x80000007	0x00000000	0x00000000	0x00000000
0x00000100			
0x80000008	0x00003027	0x00000000	0x00000000
0x00000000			
MSR 0x0000001B	0x00000000	0xFEE00800	
MSR 0x0000003A	0x00000000	0x00000001	
MSR 0x00000048	0x00000000	0x00000002	
MSR 0x000001A0	0x00000000	0x00850089	
MSR 0x00000770	0x00000000	0x00000001	
MSR 0x00000774	0x0000019E	0xB2002601	

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MSR 0x000000CE	0x0008083B	0xF1011C00
MSR 0x00000017	0x00140000	0x00000000
MSR 0x00000035	0x00000000	0x00040008
MSR 0x000000C1	0x00000000	0x00000000
MSR 0x000000C2	0x00000000	0x00000000
MSR 0x000000C3	0x00000000	0x00000000
MSR 0x000000C4	0x00000000	0x00000000
MSR 0x00000186	0x00000000	0x00000000
MSR 0x00000187	0x00000000	0x00000000
MSR 0x000001AD	0x00000000	0x22232426
MSR 0x00000194	0x00000000	0x00010000
MSR 0x0000019A	0x00000000	0x00000000
MSR 0x000001A4	0x00000000	0x00000000
MSR 0x000001B1	0x00000000	0x88380800
MSR 0x000001FC	0x00000000	0x0024005F
MSR 0x00000606	0x00000000	0x000A0E03
MSR 0x00000601	0x00000000	0x00000000
MSR 0x00000610	0x004281E0	0x00DD8168
MSR 0x00000611	0x00000000	0x03708AF8
MSR 0x00000639	0x00000000	0x02A946AD
MSR 0x00000641	0x00000000	0x0009609D
MSR 0x00000619	0x00000000	0x006CB364
MSR 0x00000614	0x00000000	0x00000168
MSR 0x00000648	0x00000000	0x0000001C
MSR 0x00000649	0x00000000	0x00110118
MSR 0x0000064A	0x00000000	0x00000000
MSR 0x00000198	0x00001D7B	0x00001B00
MSR 0x00000199	0x00000000	0x00001B00

CPU Thread 2

APIC ID 2
 Topology Processor ID 0, Core ID 1, Thread ID 0

CPUID			
0x00000000	0x00000016	0x756E6547	0x6C65746E
0x49656E69			
0x00000001	0x000906E9	0x02100800	0x7FFAFBBF
0xBFEBFBFF			
0x00000002	0x76036301	0x00F0B5FF	0x00000000
0x00C30000			
0x00000003	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000004	0x1C004121	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004122	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004143	0x00C0003F	0x000003FF
0x00000000			
0x00000004	0x1C03C163	0x02C0003F	0x00001FFF
0x00000006			
0x00000005	0x00000040	0x00000040	0x00000003
0x11142120			

	HWMonitor		
0x00000006	0x000027F7	0x00000002	0x00000009
0x00000000			
0x00000007	0x00000000	0x029C67AF	0x00000000
0x9C000000			
0x00000008	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000009	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000A	0x07300404	0x00000000	0x00000000
0x000000603			
0x0000000B	0x00000001	0x00000002	0x00000100
0x00000002			
0x0000000B	0x00000004	0x00000008	0x00000201
0x00000002			
0x0000000C	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000D	0x0000001F	0x00000440	0x00000440
0x00000000			
0x0000000D	0x0000000F	0x00000440	0x00000100
0x00000000			
0x0000000D	0x00000100	0x00000240	0x00000000
0x00000000			
0x0000000D	0x00000040	0x000003C0	0x00000000
0x00000000			
0x0000000D	0x00000040	0x00000400	0x00000000
0x00000000			
0x0000000E	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000F	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000010	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000011	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000012	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000013	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000014	0x00000001	0x0000000F	0x00000007
0x00000000			
0x00000015	0x00000002	0x000000EA	0x00000000
0x00000000			
0x00000016	0x00000AF0	0x00000ED8	0x00000064
0x00000000			
0x80000000	0x80000008	0x00000000	0x00000000
0x00000000			
0x80000001	0x00000000	0x00000000	0x00000121
0x2C100800			
0x80000002	0x65746E49	0x2952286C	0x726F4320
0x4D542865			
0x80000003	0x37692029	0x3037372D	0x20514830
0x20555043			

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0x80000004	0x2E322040	0x48473038	0x0000007A
0x00000000			
0x80000005	0x00000000	0x00000000	0x00000000
0x00000000			
0x80000006	0x00000000	0x00000000	0x01006040
0x00000000			
0x80000007	0x00000000	0x00000000	0x00000000
0x00000100			
0x80000008	0x00003027	0x00000000	0x00000000
0x00000000			

MSR 0x0000001B	0x00000000	0xFEE00800
MSR 0x0000003A	0x00000000	0x00000001
MSR 0x00000048	0x00000000	0x00000002
MSR 0x000001A0	0x00000000	0x00850089
MSR 0x00000770	0x00000000	0x00000001
MSR 0x00000774	0x0000019E	0xB2002601
MSR 0x000000CE	0x0008083B	0xF1011C00
MSR 0x00000017	0x00140000	0x00000000
MSR 0x00000035	0x00000000	0x00040008
MSR 0x000000C1	0x00000000	0x00000000
MSR 0x000000C2	0x00000000	0x00000000
MSR 0x000000C3	0x00000000	0x00000000
MSR 0x000000C4	0x00000000	0x00000000
MSR 0x00000186	0x00000000	0x00000000
MSR 0x00000187	0x00000000	0x00000000
MSR 0x000001AD	0x00000000	0x22232426
MSR 0x00000194	0x00000000	0x00010000
MSR 0x0000019A	0x00000000	0x00000000
MSR 0x000001A4	0x00000000	0x00000000
MSR 0x000001B1	0x00000000	0x88380800
MSR 0x000001FC	0x00000000	0x0024005F
MSR 0x00000606	0x00000000	0x000A0E03
MSR 0x00000601	0x00000000	0x00000000
MSR 0x00000610	0x004281E0	0x00DD8168
MSR 0x00000611	0x00000000	0x0370A7A3
MSR 0x00000639	0x00000000	0x02A958AD
MSR 0x00000641	0x00000000	0x0009609D
MSR 0x00000619	0x00000000	0x006CB4A4
MSR 0x00000614	0x00000000	0x00000168
MSR 0x00000648	0x00000000	0x0000001C
MSR 0x00000649	0x00000000	0x00110118
MSR 0x0000064A	0x00000000	0x00000000
MSR 0x00000198	0x00001E5C	0x00001B00
MSR 0x00000199	0x00000000	0x00001B00

CPU Thread 3

APIC ID	3
Topology	Processor ID 0, Core ID 1, Thread ID 1

CPUID			
0x00000000	0x00000016	0x756E6547	0x6C65746E

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0x49656E69			
0x00000001	0x000906E9	0x03100800	0x7FFAFBBF
0xBFEBFBFF			
0x00000002	0x76036301	0x00F0B5FF	0x00000000
0x00C30000			
0x00000003	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000004	0x1C004121	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004122	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004143	0x00C0003F	0x000003FF
0x00000000			
0x00000004	0x1C03C163	0x02C0003F	0x00001FFF
0x00000006			
0x00000005	0x00000040	0x00000040	0x00000003
0x11142120			
0x00000006	0x000027F7	0x00000002	0x00000009
0x00000000			
0x00000007	0x00000000	0x029C67AF	0x00000000
0x9C000000			
0x00000008	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000009	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000A	0x07300404	0x00000000	0x00000000
0x00000603			
0x0000000B	0x00000001	0x00000002	0x00000100
0x00000003			
0x0000000B	0x00000004	0x00000008	0x00000201
0x00000003			
0x0000000C	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000D	0x0000001F	0x00000440	0x00000440
0x00000000			
0x0000000D	0x0000000F	0x00000440	0x00000100
0x00000000			
0x0000000D	0x00000100	0x00000240	0x00000000
0x00000000			
0x0000000D	0x00000040	0x000003C0	0x00000000
0x00000000			
0x0000000D	0x00000040	0x00000400	0x00000000
0x00000000			
0x0000000E	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000F	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000010	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000011	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000012	0x00000000	0x00000000	0x00000000

HwMonitor

0x00000000			
0x00000013	0x00000000	0x00000000	0x00000000
0x00000014	0x00000001	0x0000000F	0x00000007
0x00000015	0x00000002	0x000000EA	0x00000000
0x00000016	0x000000AF0	0x000000ED8	0x00000064
0x80000000	0x80000008	0x00000000	0x00000000
0x80000001	0x00000000	0x00000000	0x00000121
0x2C100800	0x65746E49	0x2952286C	0x726F4320
0x4D542865	0x37692029	0x3037372D	0x20514830
0x20555043	0x2E322040	0x48473038	0x0000007A
0x80000000	0x00000000	0x00000000	0x00000000
0x80000005	0x00000000	0x00000000	0x00000000
0x80000006	0x00000000	0x00000000	0x01006040
0x80000007	0x00000000	0x00000000	0x00000000
0x80000100	0x00003027	0x00000000	0x00000000

MSR 0x0000001B	0x00000000	0xFEE00800
MSR 0x0000003A	0x00000000	0x00000001
MSR 0x00000048	0x00000000	0x00000002
MSR 0x000001A0	0x00000000	0x00850089
MSR 0x00000770	0x00000000	0x00000001
MSR 0x00000774	0x0000019E	0xB2002601
MSR 0x000000CE	0x0008083B	0xF1011C00
MSR 0x00000017	0x00140000	0x00000000
MSR 0x00000035	0x00000000	0x00040008
MSR 0x000000C1	0x00000000	0x00000000
MSR 0x000000C2	0x00000000	0x00000000
MSR 0x000000C3	0x00000000	0x00000000
MSR 0x000000C4	0x00000000	0x00000000
MSR 0x00000186	0x00000000	0x00000000
MSR 0x00000187	0x00000000	0x00000000
MSR 0x000001AD	0x00000000	0x22232426
MSR 0x00000194	0x00000000	0x00010000
MSR 0x0000019A	0x00000000	0x00000000
MSR 0x000001A4	0x00000000	0x00000000
MSR 0x000001B1	0x00000000	0x88370800
MSR 0x000001FC	0x00000000	0x0024005F
MSR 0x00000606	0x00000000	0x000A0E03
MSR 0x00000601	0x00000000	0x00000000
MSR 0x00000610	0x004281E0	0x00DD8168

HWMonitor		
MSR 0x00000611	0x00000000	0x0370B3EF
MSR 0x00000639	0x00000000	0x02A96360
MSR 0x00000641	0x00000000	0x0009609D
MSR 0x00000619	0x00000000	0x006CB554
MSR 0x00000614	0x00000000	0x00000168
MSR 0x00000648	0x00000000	0x0000001C
MSR 0x00000649	0x00000000	0x00110118
MSR 0x0000064A	0x00000000	0x00000000
MSR 0x00000198	0x00001F45	0x00001C00
MSR 0x00000199	0x00000000	0x00001B00

CPU Thread 4

APIC ID 4
 Topology Processor ID 0, Core ID 2, Thread ID 0

CPUID	Processor ID	Core ID	Thread ID
0x00000000	0x00000016	0x756E6547	0x6C65746E
0x49656E69			
0x00000001	0x000906E9	0x04100800	0x7FFAFBBF
0xBFEBFBFF			
0x00000002	0x76036301	0x00F0B5FF	0x00000000
0x00C30000			
0x00000003	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000004	0x1C004121	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004122	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004143	0x00C0003F	0x000003FF
0x00000000			
0x00000004	0x1C03C163	0x02C0003F	0x00001FFF
0x00000006			
0x00000005	0x00000040	0x00000040	0x00000003
0x11142120			
0x00000006	0x000027F7	0x00000002	0x00000009
0x00000000			
0x00000007	0x00000000	0x029C67AF	0x00000000
0x9C000000			
0x00000008	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000009	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000A	0x07300404	0x00000000	0x00000000
0x00000603			
0x0000000B	0x00000001	0x00000002	0x00000100
0x00000004			
0x0000000B	0x00000004	0x00000008	0x00000201
0x00000004			
0x0000000C	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000D	0x0000001F	0x00000440	0x00000440
0x00000000			

HWMonitor

0x0000000D	0x0000000F	0x00000440	0x00000100
0x00000000			
0x0000000D	0x00000100	0x00000240	0x00000000
0x00000000			
0x0000000D	0x00000040	0x000003C0	0x00000000
0x00000000			
0x0000000D	0x00000040	0x00000400	0x00000000
0x00000000			
0x0000000E	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000F	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000010	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000011	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000012	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000013	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000014	0x00000001	0x0000000F	0x00000007
0x00000000			
0x00000015	0x00000002	0x000000EA	0x00000000
0x00000000			
0x00000016	0x00000AF0	0x00000ED8	0x00000064
0x00000000			
0x80000000	0x80000008	0x00000000	0x00000000
0x00000000			
0x80000001	0x00000000	0x00000000	0x00000121
0x2C100800			
0x80000002	0x65746E49	0x2952286C	0x726F4320
0x4D542865			
0x80000003	0x37692029	0x3037372D	0x20514830
0x20555043			
0x80000004	0x2E322040	0x48473038	0x0000007A
0x00000000			
0x80000005	0x00000000	0x00000000	0x00000000
0x00000000			
0x80000006	0x00000000	0x00000000	0x01006040
0x00000000			
0x80000007	0x00000000	0x00000000	0x00000000
0x00000100			
0x80000008	0x00003027	0x00000000	0x00000000
0x00000000			
MSR 0x0000001B	0x00000000	0xFEE00800	
MSR 0x0000003A	0x00000000	0x00000001	
MSR 0x00000048	0x00000000	0x00000002	
MSR 0x000001A0	0x00000000	0x00850089	
MSR 0x00000770	0x00000000	0x00000001	
MSR 0x00000774	0x00000019E	0xB2002601	
MSR 0x000000CE	0x0008083B	0xF1011C00	

HwMonitor

MSR 0x00000017	0x00140000	0x00000000
MSR 0x00000035	0x00000000	0x00040008
MSR 0x000000C1	0x00000000	0x00000000
MSR 0x000000C2	0x00000000	0x00000000
MSR 0x000000C3	0x00000000	0x00000000
MSR 0x000000C4	0x00000000	0x00000000
MSR 0x00000186	0x00000000	0x00000000
MSR 0x00000187	0x00000000	0x00000000
MSR 0x000001AD	0x00000000	0x22232426
MSR 0x00000194	0x00000000	0x00010000
MSR 0x0000019A	0x00000000	0x00000000
MSR 0x000001A4	0x00000000	0x00000000
MSR 0x000001B1	0x00000000	0x88380800
MSR 0x000001FC	0x00000000	0x0024005F
MSR 0x00000606	0x00000000	0x000A0E03
MSR 0x00000601	0x00000000	0x00000000
MSR 0x00000610	0x004281E0	0x00DD8168
MSR 0x00000611	0x00000000	0x0370BED6
MSR 0x00000639	0x00000000	0x02A96C75
MSR 0x00000641	0x00000000	0x0009609D
MSR 0x00000619	0x00000000	0x006CB60E
MSR 0x00000614	0x00000000	0x00000168
MSR 0x00000648	0x00000000	0x0000001C
MSR 0x00000649	0x00000000	0x00110118
MSR 0x0000064A	0x00000000	0x00000000
MSR 0x00000198	0x00001BE1	0x00001600
MSR 0x00000199	0x00000000	0x00001B00

CPU Thread 5

APIC ID 5
 Topology Processor ID 0, Core ID 2, Thread ID 1

CPUID	Processor ID	Core ID	Thread ID
0x49656E69	0x00000016	0x756E6547	0x6C65746E
0xBFEBFBFF	0x000906E9	0x05100800	0x7FFAFBBF
0x00C30000	0x76036301	0x00F0B5FF	0x00000000
0x00000000	0x00000000	0x00000000	0x00000000
0x00000000	0x1C004121	0x01C0003F	0x0000003F
0x00000000	0x1C004122	0x01C0003F	0x0000003F
0x00000000	0x1C004143	0x00C0003F	0x000003FF
0x00000006	0x1C03C163	0x02C0003F	0x00001FFF
0x11142120	0x00000040	0x00000040	0x00000003
0x00000006	0x000027F7	0x00000002	0x00000009

HWMonitor

0x00000000			
0x00000007	0x00000000	0x029C67AF	0x00000000
0x9C000000			
0x00000008	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000009	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000A	0x07300404	0x00000000	0x00000000
0x00000603			
0x0000000B	0x00000001	0x00000002	0x00000100
0x00000005			
0x0000000B	0x00000004	0x00000008	0x00000201
0x00000005			
0x0000000C	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000D	0x0000001F	0x00000440	0x00000440
0x00000000			
0x0000000D	0x0000000F	0x00000440	0x00000100
0x00000000			
0x0000000D	0x00000100	0x00000240	0x00000000
0x00000000			
0x0000000D	0x00000040	0x000003C0	0x00000000
0x00000000			
0x0000000D	0x00000040	0x00000400	0x00000000
0x00000000			
0x0000000E	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000F	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000010	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000011	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000012	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000013	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000014	0x00000001	0x0000000F	0x00000007
0x00000000			
0x00000015	0x00000002	0x000000EA	0x00000000
0x00000000			
0x00000016	0x00000AF0	0x00000ED8	0x00000064
0x00000000			
0x80000000	0x80000008	0x00000000	0x00000000
0x00000000			
0x80000001	0x00000000	0x00000000	0x00000121
0x2C100800			
0x80000002	0x65746E49	0x2952286C	0x726F4320
0x4D542865			
0x80000003	0x37692029	0x3037372D	0x20514830
0x20555043			
0x80000004	0x2E322040	0x48473038	0x0000007A

HWMonitor

```

0x00000000
    0x80000005      0x00000000      0x00000000      0x00000000
0x00000000
    0x80000006      0x00000000      0x00000000      0x01006040
0x00000000
    0x80000007      0x00000000      0x00000000      0x00000000
0x00000100
    0x80000008      0x00003027      0x00000000      0x00000000
0x00000000

```

```

MSR 0x0000001B      0x00000000      0xFEE00800
MSR 0x0000003A      0x00000000      0x00000001
MSR 0x00000048      0x00000000      0x00000002
MSR 0x000001A0      0x00000000      0x00850089
MSR 0x00000770      0x00000000      0x00000001
MSR 0x00000774      0x0000019E      0xB2002601
MSR 0x000000CE      0x0008083B      0xF1011C00
MSR 0x00000017      0x00140000      0x00000000
MSR 0x00000035      0x00000000      0x00040008
MSR 0x000000C1      0x00000000      0x00000000
MSR 0x000000C2      0x00000000      0x00000000
MSR 0x000000C3      0x00000000      0x00000000
MSR 0x000000C4      0x00000000      0x00000000
MSR 0x00000186      0x00000000      0x00000000
MSR 0x00000187      0x00000000      0x00000000
MSR 0x000001AD      0x00000000      0x22232426
MSR 0x00000194      0x00000000      0x00010000
MSR 0x0000019A      0x00000000      0x00000000
MSR 0x000001A4      0x00000000      0x00000000
MSR 0x000001B1      0x00000000      0x88380800
MSR 0x000001FC      0x00000000      0x0024005F
MSR 0x00000606      0x00000000      0x000A0E03
MSR 0x00000601      0x00000000      0x00000000
MSR 0x00000610      0x004281E0      0x00DD8168
MSR 0x00000611      0x00000000      0x0370CAA9
MSR 0x00000639      0x00000000      0x02A976EC
MSR 0x00000641      0x00000000      0x0009609D
MSR 0x00000619      0x00000000      0x006CB6C0
MSR 0x00000614      0x00000000      0x00000168
MSR 0x00000648      0x00000000      0x0000001C
MSR 0x00000649      0x00000000      0x00110118
MSR 0x0000064A      0x00000000      0x00000000
MSR 0x00000198      0x00001E77      0x00001B00
MSR 0x00000199      0x00000000      0x00001B00

```

CPU Thread 6

```

    APIC ID          6
    Topology         Processor ID 0, Core ID 3, Thread ID 0

```

```

    CPUID
    0x00000000      0x00000016      0x756E6547      0x6C65746E

```

0x49656E69

	HWMonitor		
0x00000001	0x000906E9	0x06100800	0x7FFAFBBF
0xBFEBFBFF			
0x00000002	0x76036301	0x00F0B5FF	0x00000000
0x00C30000			
0x00000003	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000004	0x1C004121	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004122	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004143	0x00C0003F	0x0000003FF
0x00000000			
0x00000004	0x1C03C163	0x02C0003F	0x00001FFF
0x00000006			
0x00000005	0x00000040	0x00000040	0x00000003
0x11142120			
0x00000006	0x000027F7	0x00000002	0x00000009
0x00000000			
0x00000007	0x00000000	0x029C67AF	0x00000000
0x9C000000			
0x00000008	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000009	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000A	0x07300404	0x00000000	0x00000000
0x00000603			
0x0000000B	0x00000001	0x00000002	0x00000100
0x00000006			
0x0000000B	0x00000004	0x00000008	0x00000201
0x00000006			
0x0000000C	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000D	0x0000001F	0x00000440	0x00000440
0x00000000			
0x0000000D	0x0000000F	0x00000440	0x00000100
0x00000000			
0x0000000D	0x00000100	0x00000240	0x00000000
0x00000000			
0x0000000D	0x00000040	0x000003C0	0x00000000
0x00000000			
0x0000000D	0x00000040	0x00000400	0x00000000
0x00000000			
0x0000000E	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000F	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000010	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000011	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000012	0x00000000	0x00000000	0x00000000
0x00000000			

HWMonitor

0x00000013	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000014	0x00000001	0x0000000F	0x00000007
0x00000000			
0x00000015	0x00000002	0x000000EA	0x00000000
0x00000000			
0x00000016	0x000000AF0	0x000000ED8	0x00000064
0x00000000			
0x80000000	0x80000008	0x00000000	0x00000000
0x00000000			
0x80000001	0x00000000	0x00000000	0x00000121
0x2C100800			
0x80000002	0x65746E49	0x2952286C	0x726F4320
0x4D542865			
0x80000003	0x37692029	0x3037372D	0x20514830
0x20555043			
0x80000004	0x2E322040	0x48473038	0x0000007A
0x00000000			
0x80000005	0x00000000	0x00000000	0x00000000
0x00000000			
0x80000006	0x00000000	0x00000000	0x01006040
0x00000000			
0x80000007	0x00000000	0x00000000	0x00000000
0x00000100			
0x80000008	0x00003027	0x00000000	0x00000000
0x00000000			

MSR 0x0000001B	0x00000000	0xFEE00800
MSR 0x0000003A	0x00000000	0x00000001
MSR 0x00000048	0x00000000	0x00000002
MSR 0x000001A0	0x00000000	0x00850089
MSR 0x00000770	0x00000000	0x00000001
MSR 0x00000774	0x0000019E	0xB2002601
MSR 0x000000CE	0x0008083B	0xF1011C00
MSR 0x00000017	0x00140000	0x00000000
MSR 0x00000035	0x00000000	0x00040008
MSR 0x000000C1	0x00000000	0x00000000
MSR 0x000000C2	0x00000000	0x00000000
MSR 0x000000C3	0x00000000	0x00000000
MSR 0x000000C4	0x00000000	0x00000000
MSR 0x00000186	0x00000000	0x00000000
MSR 0x00000187	0x00000000	0x00000000
MSR 0x000001AD	0x00000000	0x22232426
MSR 0x00000194	0x00000000	0x00010000
MSR 0x0000019A	0x00000000	0x00000000
MSR 0x000001A4	0x00000000	0x00000000
MSR 0x000001B1	0x00000000	0x88390800
MSR 0x000001FC	0x00000000	0x0024005F
MSR 0x00000606	0x00000000	0x000A0E03
MSR 0x00000601	0x00000000	0x00000000
MSR 0x00000610	0x004281E0	0x00DD8168
MSR 0x00000611	0x00000000	0x0370DB00

	HWMonitor	
MSR 0x00000639	0x00000000	0x02A98218
MSR 0x00000641	0x00000000	0x0009609D
MSR 0x00000619	0x00000000	0x006CB773
MSR 0x00000614	0x00000000	0x00000168
MSR 0x00000648	0x00000000	0x0000001C
MSR 0x00000649	0x00000000	0x00110118
MSR 0x0000064A	0x00000000	0x00000000
MSR 0x00000198	0x00001C9C	0x00001800
MSR 0x00000199	0x00000000	0x00001B00

CPU Thread 7

APIC ID 7
Topology Processor ID 0, Core ID 3, Thread ID 1

CPUID			
0x00000000	0x00000016	0x756E6547	0x6C65746E
0x49656E69			
0x00000001	0x000906E9	0x07100800	0x7FFAFBBF
0xBFEBFBFF			
0x00000002	0x76036301	0x00F0B5FF	0x00000000
0x00C30000			
0x00000003	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000004	0x1C004121	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004122	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004143	0x00C0003F	0x000003FF
0x00000000			
0x00000004	0x1C03C163	0x02C0003F	0x00001FFF
0x00000006			
0x00000005	0x00000040	0x00000040	0x00000003
0x11142120			
0x00000006	0x000027F7	0x00000002	0x00000009
0x00000000			
0x00000007	0x00000000	0x029C67AF	0x00000000
0x9C000000			
0x00000008	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000009	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000A	0x07300404	0x00000000	0x00000000
0x00000603			
0x0000000B	0x00000001	0x00000002	0x00000100
0x00000007			
0x0000000B	0x00000004	0x00000008	0x00000201
0x00000007			
0x0000000C	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000D	0x0000001F	0x00000440	0x00000440
0x00000000			
0x0000000D	0x0000000F	0x00000440	0x00000100

HWMonitor

0x00000000	0x0000000D	0x00000100	0x00000240	0x00000000
0x00000000	0x0000000D	0x00000040	0x000003C0	0x00000000
0x00000000	0x0000000D	0x00000040	0x00000400	0x00000000
0x00000000	0x0000000E	0x00000000	0x00000000	0x00000000
0x00000000	0x0000000F	0x00000000	0x00000000	0x00000000
0x00000000	0x00000010	0x00000000	0x00000000	0x00000000
0x00000000	0x00000011	0x00000000	0x00000000	0x00000000
0x00000000	0x00000012	0x00000000	0x00000000	0x00000000
0x00000000	0x00000013	0x00000000	0x00000000	0x00000000
0x00000000	0x00000014	0x00000001	0x0000000F	0x00000007
0x00000000	0x00000015	0x00000002	0x000000EA	0x00000000
0x00000000	0x00000016	0x00000AF0	0x00000ED8	0x00000064
0x00000000	0x80000000	0x80000008	0x00000000	0x00000000
0x00000000	0x80000001	0x00000000	0x00000000	0x00000121
0x2C100800	0x80000002	0x65746E49	0x2952286C	0x726F4320
0x4D542865	0x80000003	0x37692029	0x3037372D	0x20514830
0x20555043	0x80000004	0x2E322040	0x48473038	0x0000007A
0x00000000	0x80000005	0x00000000	0x00000000	0x00000000
0x00000000	0x80000006	0x00000000	0x00000000	0x01006040
0x00000000	0x80000007	0x00000000	0x00000000	0x00000000
0x00000100	0x80000008	0x00003027	0x00000000	0x00000000
0x00000000				
	MSR 0x0000001B	0x00000000	0xFEE00800	
	MSR 0x0000003A	0x00000000	0x00000001	
	MSR 0x00000048	0x00000000	0x00000002	
	MSR 0x000001A0	0x00000000	0x00850089	
	MSR 0x00000770	0x00000000	0x00000001	
	MSR 0x00000774	0x0000019E	0xB2002601	
	MSR 0x000000CE	0x0008083B	0xF1011C00	
	MSR 0x00000017	0x00140000	0x00000000	

HWMonitor

MSR 0x00000035	0x00000000	0x00040008
MSR 0x000000C1	0x00000000	0x00000000
MSR 0x000000C2	0x00000000	0x00000000
MSR 0x000000C3	0x00000000	0x00000000
MSR 0x000000C4	0x00000000	0x00000000
MSR 0x00000186	0x00000000	0x00000000
MSR 0x00000187	0x00000000	0x00000000
MSR 0x000001AD	0x00000000	0x22232426
MSR 0x00000194	0x00000000	0x00010000
MSR 0x0000019A	0x00000000	0x00000000
MSR 0x000001A4	0x00000000	0x00000000
MSR 0x000001B1	0x00000000	0x88390800
MSR 0x000001FC	0x00000000	0x0024005F
MSR 0x00000606	0x00000000	0x000A0E03
MSR 0x00000601	0x00000000	0x00000000
MSR 0x00000610	0x004281E0	0x00DD8168
MSR 0x00000611	0x00000000	0x0370E609
MSR 0x00000639	0x00000000	0x02A98BAF
MSR 0x00000641	0x00000000	0x0009609D
MSR 0x00000619	0x00000000	0x006CB828
MSR 0x00000614	0x00000000	0x00000168
MSR 0x00000648	0x00000000	0x0000001C
MSR 0x00000649	0x00000000	0x00110118
MSR 0x0000064A	0x00000000	0x00000000
MSR 0x00000198	0x00001CC2	0x00001800
MSR 0x00000199	0x00000000	0x00001B00

Storage

Drive 0

Name	SAMSUNG MZVLW256HEHP-000H1
Serial	CXB73H1Q863551
Capacity	238.5 GB
Type	Fixed
Bus Type	NVMe (17)
Features	
Volume	c:\, 237.0 GBytes (51.8 percent available)

USB Devices

USB Device	Périphérique USB composite, class=0x00, subclass=0x00, vendor=0x045E, product=0x07FD
USB Device	Périphérique USB composite, class=0xEF, subclass=0x02, vendor=0x05C8, product=0x0397
USB Device	Synaptics FP Sensors (WBF) (PID=003f), class=0xFF, subclass=0x12, vendor=0x138A, product=0x003F
USB Device	Intel(R) Wireless Bluetooth(R), class=0xE0, subclass=0x01, vendor=0x8087, product=0x0A2B

HWMonitor

Graphic APIs

API	D3D
API	NVIDIA I/O
API	NVIDIA NVAPI
API	Intel I/O

Display Adapters

Display adapter 0

ID	0x1000000
Name	NVIDIA Quadro M1200
Board Manufacturer	Hewlett-Packard
Memory size	4 GB
Memory type	GDDR5
Memory vendor	Samsung
PCI device	bus 1 (0x1), device 0 (0x0), function 0 (0x0)
Vendor ID	0x10DE (0x103C)
Model ID	0x13B6 (0x8275)
Revision ID	0xA2
Performance Level	0

Display adapter 1

ID	0x4000000
Name	Intel(R) HD Graphics 630
Board Manufacturer	Hewlett-Packard
PCI device	bus 0 (0x0), device 2 (0x2), function 0 (0x0)
Vendor ID	0x8086 (0x103C)
Model ID	0x591B (0x8275)
Revision ID	0x4
Performance Level	0
Core clock	448.8 MHz

Monitor 0

Model	()
ID	LGD057E
Serial	
Manufacturing Date	Week 0, Year 2016
Size	15.3 inches
Max Resolution	1920 x 1080 @ 60 Hz
Horizontal Freq. Range	0-0 kHz
Vertical Freq. Range	0-0 Hz
Max Pixel Clock	0 MHz
Gamma Factor	2.2

ACPI

HwMonitor

ACPI Tree

```
_GPE
  _L66
  WOAT
  CNDD
  VHIV
  VBRE
  VFN4
  VDET
  LRSC
  VLET
  VPUP
  VDCE
  _L6D
  OSUP
  SXST
  PGWA
  TBFF
  TSUB
  WSUB
  WWAK
  NTFY
  NFYG
  TFPS
  CNCT
  CLNE
  DRPM
  DMSI
  RSMI
  GNIS
  XTBT
  _E4C
  TINI
  _L61
  _L62
  _L69
  _L1D
  _L6F
  DKET
  VHOV
  _L0F
  HLVT
_PR_
  PR00
    CPC2
    CPOC
    HI0_
    HC0_
    HW0_
    HW2_
    _PDC
```

HwMonitor

_OSC
STS0
CPDC
UID0
SMIP
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IOB2
COSC
GCAP
C1TM
C3TM
C6TM
C7TM
CDTM
MWES
AC2V
AC3V
C3ST
C2ST
C1ST
CSTF
_CST
_PPC
_PCT
_PSS
LPSS
TPSS
PSDF
_PSD
HPSD
SPSD
_CPC
PR01
HI1_
HC1_
HW1_
_PDC
_OSC
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APCT
APPT
HWPT
_PPC
_PCT
_PSS
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SPSD
_CPC
_CST
PR02

HwMonitor

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_PPC
_PCT
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_CPC
_CST
PR06

HwMonitor

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_PPC
_PCT
_PSS
PSDF
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SPSD
_CPC
_CST

PR07

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_PPC
_PCT
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HPSD
SPSD
_CPC
_CST

PR08

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_PPC
_PCT
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HPSD
SPSD
_CPC
_CST

PR09

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_PCT
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SPSD
_CPC
_CST

PR10

HwMonitor

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_CST
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HwMonitor

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SPSD
_CPC
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_OSC
GCAP
_PPC
_PCT
_PSS
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_PSD
HPSD
SPSD
_CPC
_CST
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PNVS
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PGRV
CFGD
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ACRT
APSV
AAC0
CPID
CPPC
CLVL
CBMI
PL10
PL20
PLW0
CTC0
TAR0
PPC0
PL11
PL21
PLW1
CTC1
TAR1
PPC1
PL12
PL22

HWMonitor

PLW2
 CTC2
 TAR2
 PPC2
 C3MW
 C6MW
 C7MW
 CDMW
 C3LT
 C6LT
 C7LT
 CDLT
 CDLV
 CDPW
 MPMF
 DTSE
 DTS1
 DTS2
 DTSF
 PDTS
 PKGA
 DTS3
 DTS4
 BGMA
 BGMS
 BGIA
 BGIL
 DSIA
 DSIL
 DSAE
 EPCS
 EMNA
 ELNG
 HWPV
 HWPA
 HWPL
 POWS
 HDCE
 HWPI
 DTSI
 IO_D
 []
 TRPD
 IO_P
 []
 TRPF
 SB
 WMIB
 _HID
 _UID
 PUMX
 WDST

HwMonitor

WDIN
WDEN
WDLI
WDPA
WDBU
WDG_
WDUN
_WDG
UWIC
WQZZ
SBUF
GHBE
UPRP
WHIB
AFUL
WHSB
WHNS
WHSQ
QPUW
WQST
WQIN
WQEN
WQOL
WQPW
WQBU
TBUF
SHBE
WSTB
BNSD
BSNS
BGNS
WSBS
WSSD
WFTE
WMBS
WMUI
CBWE
UKEV
BEMX
BEID
_WED
GBME
PEVT
WQPE
HWSS
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WSSC
WSSB
SENS
WQSS
WMIV
_HID

HwMonitor

_UID
BORN
FBCD
FSEC
FGIF
FGAE
FGAU
FGFS
FGLC
FGLW
FLCC
FBPS
HVWC
VRBC
VWBC
THCT
PRFI
TSTM
TSTV
CSD0
CSD1
CSD2
CSD3
SBBC
WGBI
GSAS
HWWB
STMM
GTMS
STCS
GAAT
IUIP
GUCS
CPMC
WGBC
WSBC
ROAE
HVWP
GHKS
SHKS
GHKF
GEID
WGWS
WGDS
GPPS
SPPA
STPB
WQZZ
ZOBF
_WDG
WVPI
HVWA

HwMonitor

WVPO
WVCM
WMPV
VEI1
VED1
VEI2
VED2
VEVI
VEMX
_WED
GVWE
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AR00
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PR05
AR05
PR06
AR06
PR07
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PR0F
AR0F
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HwMonitor

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PXSZ
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PXBR
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DIEN
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MEBR
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PM1L
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PM1H
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PM2L
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PM2H
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PM3L
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PM3H
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PM4H
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PM5L
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PM5H
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HWMonitor

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TLUD
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MH_B
PC_B
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GPCB
GPCL
GDMB
_CRS
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SUPP
CTRL
XCNT
_OSC
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PR0B
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HwMonitor

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PSTS
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GENG
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HPME
_PRT
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LTRV
_DSM
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 _STA
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 _OFF
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_PR3
_DSW
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_S0W
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PEGR
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GENG
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HPME

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LTRV
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VVID
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NDOD
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GDCC
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NPLH
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PDID
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MX01
MX02
MXD1
MXD2

HwMonitor

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_S4D
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_DOD
_INI
_REG
_DOS
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 _ADR
 _DCS
 _DGS
 _DSS
 _BCL
 _BCM
 _BQC
CRT_
 _ADR
 _DCS
 _DGS
 _DSS
TV_
 _ADR
 _DCS
 _DGS
 _DSS
DVI_
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 _DSS
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DD07
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 _DCS
 _DGS

HwMonitor

_DSS
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DSS_
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MLTF
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NVOP
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PSBR
BRIN
TGIX
MUID
NUID
VUID
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GPUP
SBRV

HwMonitor

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PBCC
PBCR
PBDI
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PBMX
APBX
RPBX
PBIA
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REVD
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VROM
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RPPC
GSTS
DEVT
FBDX
RNPL
NPD5
NPLU
GPS_
TGPC
TDGC
DGCX
TRPC
GC6I
GC60
GETS
NVJT
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GSTA
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DCFG
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DGID
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HwMonitor

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SGPO
WKEN
PEGR
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PSTS
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GENG
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HPME
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_S0W
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AVID
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CMDR

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SSID
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GFX0
_ADR
PCIG
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GVID
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DSPR
DODS
_INI
HDOS
HDOD
PDDS
UPNA
UPAA
UPND
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IDKE
IRFH
ISNX
ISBR
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_BCL
_BCM
_BQC
_ADR
_DCS
_DGS
_DSS
DCSC
GDCC
PDOS
_DOS
_DOD
DD01
_ADR
_DCS
_DGS
_DSS
DD02
_ADR
_DCS
_DGS
_DSS
DD03
_ADR

HwMonitor

_DCS
_DGS
_DSS
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_ADR
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HwMonitor

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DD0F
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SDDL
CDDS
NDDS
DSST
IGDP
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GIVD
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GUMA
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LBPC
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IGDM
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SVER
VVER
GVER
MBOX
DMOD
PCON

HwMonitor

DVER
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CSTS
CEVT
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DDL6
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DDL8
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CPL6
CPL7
CPL8
CADL
CAL2
CAL3
CAL4
CAL5
CAL6
CAL7
CAL8
NADL
NDL2
NDL3
NDL4
NDL5
NDL6
NDL7
NDL8
ASLP
TIDX
CHPD
CLID
CDCK
SXSW
EVTS
CNOT
NRDY
DDL9
DD10
DD11
DD12
DD13

HwMonitor

DD14
DD15
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CP10
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CP12
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CP14
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SCIE
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GXFC
GESF
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PARM
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ARDY
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TCHE
ALSI
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PFIT
CBLV
BCLM
CPFM
EPFM
PLUT
PFMB
CCDV
PCFT
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IUER
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FDSS
STAT
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GVD1
PHED
BDDC
DBTB
CDCT
SUCC
NVLD
CRIT
NCRT
GSCI
PDRD
PSTS
GNOT
GHDS

HwMonitor

GLID
GDCK
PARD
IUEH
AINT
_DSM
SKC0
_ADR
_STA
ACEL
_HID
DEPT
CTST
_INI
_CRS
_STA
ITAL
AJAL
CLRI
ALRD
ALWR
ALID
ADSN
ALED
PCIC
TEMP
PRRE
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_UID
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_CRS
IOTR
_HID
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DIDX
CIDX
PMCC
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THTA
HYST
CRIT
TEMP
TENA
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TOAD
PHTP
THEM
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AFAN
FRDC
FTGC
PLTP
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DTMP
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FR2C

HwMonitor

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BCVD
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ABDI
ABAD
ABIX
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ABST
PORI
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PSSB
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PPVP
UCHC
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UCDB
UCCS
UCPN
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AS4F
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BKDT
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HwMonitor

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HwMonitor

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INCH

HwMonitor

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KSFS
KGFS
KRFS
SFSD
GFSD
GSHK
SSHK
SAST
HSPW
UHSW
CHSW
SHSW
HWLP
HWWP

HwMonitor

ECAB
GACW
GBAW
NGBF
NGBT
GACP
ACST
SMAR
NBAP
NNBO
NDCB
NLB1
NLB2
NLO2
BTMX
UPAD
GACS
GPID
GBAP
PWUP
BTDR
BSTA
GBSS
GBMF
GCTL
GDNM
GDCH
BTIF
BTST
ITLB
GBTI
GBTC
SBTC
OTMT
OTLL
OTSI
OTRT
OTEN
LRPC
MXCP
DCCP
TBOS
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_Q05
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_Q08
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_Q09
_Q0C
_Q18
_Q19

HwMonitor

_Q24
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_Q26
_Q50
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PRIT
BIND
 _HID
 _CID
 _STA
 _DSM
VGBI
 _HID
 VBDS
 ONTM
 _STA
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 VGBS
 UPBT
 GPBT
 PBIN
COVS
DOKS
BUCG
GBIS
BUCW
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 _STA
 _CRS
IPIC
 _HID
 _CRS
MATH
 _HID
 _CRS
 _STA

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TIMR
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CWDT
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 BUF0
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PKBD
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 _CRS
 _PRS
 _HID
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 _DSM
SBUS
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HwMonitor

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SDAT
SSXB
SRXB
SWRB
SRDB
SWRW
SRDW
SBLW
SBLR
STRT
COMP
KILL
LTRZ
OBFZ
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HS10
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HwMonitor

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_PLD
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SS10

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 HDAR
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 VDID
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 _DSW
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 GPEH
 _PSØ
 _PS3
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 _DSM
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RPØ1
 _ADR
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HWMonitor

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PMEX
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L23R
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LEDM
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DPGE
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LTRV
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 _PRW
HPME
 _PRW
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RP02
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RPØ3
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RP04

HwMonitor

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_ADR
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 _OFF
 _RST
 _PRR
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WAND
WRDX
WRDD
WRDY
WRDS
AWVC
WOWG
EWRY
EWRD
WIST
HPME
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RP05
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HwMonitor

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 RHUB
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 _UPC
 _PLD
 HS02
 _ADR
 _UPC
 _PLD
 SS01
 _ADR
 _UPC
 _PLD
 SS02
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HwMonitor

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HwMonitor

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HwMonitor

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HwMonitor

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HwMonitor

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HwMonitor

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 _GTF
PRT3
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PRT4
 _ADR
 IDAS

HwMonitor

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 _GTF
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 _ADR
VOL2
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ARPC
NVM1
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 PCMD
 RSTG
 PWRG
 SCLK
 NCRN
 NITV
 NPMV
 NPCV
 NL1V
 ND2V
 ND1V
 NLRV
 NLDV
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 NEBV
 NECV
 NRAV
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 NMVV
 NPBV
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 NRPN
 MXIE
 ISD3
 RPN
 RPOF
 NVD3
 NVD0
 CNRS
NVM2

HwMonitor

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_INI
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PRBD
PCMD
RSTG
PWRG
SCLK
NCRN
NITV
NPMV
NPCV
NL1V
ND2V
ND1V
NLRV
NLDV
NEAV
NEBV
NECV
NRAV
NMBV
NMVV
NPBV
NPVV
NRPN
MXIE
ISD3
RPON
RPOF
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NVM3
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PRBD
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RSTG
PWRG
SCLK
NCRN
NITV
NPMV
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ND2V
ND1V
NLRV
NLDV
NEAV

HwMonitor

NEBV
NECV
NRAV
NMBV
NMVV
NPBV
NPVV
NRPN
MXIE
ISD3
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RPOF
NVD3
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TERM
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 _CRS
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HECI
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PTMS
PTIA
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NHPG
NPME

HwMonitor

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HBRD
HBRF
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PEBA
PION
PIOF
PBUS
PDEV
PFUN
EBUS
EDEV
EFN0
EFN1
LTRS
OBFS
INDX
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SBOF
ELC0
ECP0
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H0DI
ELC1
ECP1
H1VI
H1DI
ELC2
ECP2
H2VI
H2DI
TIDX

HWMonitor

OTSD
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CBDL
MBDL
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P0L0
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HwMonitor

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PCS0
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S0DI
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LCT0
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HwMonitor

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HwMonitor

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LCT2
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PGOF
MMRB
MMWB
MMRW
MMWW
MMRD
MMWD
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GMXB
PUAB
PDUB
SBDL
GUBC
LKEN
LKDS
DIWK
GDEV
GFUN
CCHK
NTFY
GPPR
SGPO
SGPI
MBAR
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PTDP

HwMonitor

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PMIN
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PMAX
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TMAX
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PWRU
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EGYU
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TIMU
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LPMS
CTNL
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PPL1
PL1E
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PL1T
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PPL2
PL2E
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PL2T
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TARN
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PTD1
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PMX1
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PMN1
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PTD2
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TAR2
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CTCL
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CLCK
TAR_
CTCU
CTCN
CTCD

HwMonitor

TRAT
PRAT
TMPI
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SPPC
CLC2
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RTCO
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RTIN
RTDA
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HGGW
HGGR
HGMD
HDOE
HDFE
SGON
SGOF
SGIV
BN00
BEVT
F4EV
VSDD
VGDD
VWAK
WBRT
NBTI
NBST
NDBS
ACST
SMAR
BT0P
BTIF
BTST
BAT0
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 _BIF
 _BST
 _PCL
BAT1
 _HID

HwMonitor

_UID
_STA
_BIF
_BST
_PCL
AC_
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_PSR
SLPB
_HID
LID_
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LDPS
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EDDA
LDPT
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LDBP
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LLPD
LUPD
ODBB
ODBG
ODG1
ODGW
ODGD
EODB
EODW
EODD
HTAM
_HID
_UID
_CRS
_STA
PWRB
_HID
_STA
GPCL
GPCH
RXEV
GINF
GMXG
GADR
GNUM
INUM
GGRP
GNMB
GGPE
GPCØ

HwMonitor

SPC0
GPC1
SPC1
SRX0
GGIV
GGOV
SGOV
GGII
SGII
GPMV
SPMV
GHPO
SHPO
GGPO
SGRA
SGWP
UGPS
CGP1
CGPS
CGLS
CAGS
ISME
DIPI
UIPI
LNKA
 _HID
 _UID
 _DIS
 _PRS
 _CRS
 _SRS
 _STA
LNKB
 _HID
 _UID
 _DIS
 _PRS
 _CRS
 _SRS
 _STA
LNKC
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 _DIS
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 _CRS
 _SRS
 _STA
LNKD
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 _UID
 _DIS

HwMonitor

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_CRS
_SRS
_STA
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_CRS
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_CRS
_SRS
_STA
LNKG
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_DIS
_PRS
_CRS
_SRS
_STA
LNKH
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_DIS
_PRS
_CRS
_SRS
_STA
HDAA
DISA
DION
DIOF
VMMH
WMIS
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_UID
_WDG
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THDR
CGWR
CGRD
WRGP
RDGP
TBFP

HwMonitor

WTBT
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 _UID
 _WDG
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W008
R016
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R032
W032
PERB
PEWB
PERW
PEWW
PERD
PEWD
STDC
ITSS
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PARC
PBRC
PCRC
PDRC
PERC
PFRC
PGRC
PHRC
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SCGE
OSCI
OSCO
OSCP
_OSC
EPC_
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 _STR
 _MLS
 RBUF
 _CRS
 _STA
BTKL
 _HID
 _STA
 _PS0
 _PS3
 PSTS
PAGD
 _HID
 _STA

HwMonitor

_PUR
WLBU
_HID
DEPT
INIT
_STA
UWLS
WLED
WLSH
BCLI
BCLS
NITS
BCLC
BCL_
BCMC
BRIG
BCM_
BQC_
HDDC
SBRC
MSMI
SSMI
DCKD
GRFS
GLVR
GLVW
GISR
GISW
GINR
GINW
TPM_
_HID
_STR
_CRS
TPMR
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ACCØ
TNVS
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PPIN
PPIP
PPRP
PPRQ
PPRM
LPPR
FRET
MCIN
MCIP
MORD
MRET
PTS_
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HwMonitor

HINF
TPM2
TPM3
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TMCI
_DSM
SKC0
_HID
_CID
_STA
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_HID
HBSY
HIDX
HMDE
HRDY
BTLD
BTS1
BTEN
_STA
HDDM
HDEM
HDMM
HDSM
HPEM
BTNL
BTNE
BTNS
BTNC
PWPR
PWRR
CIND
_HID
_CID
_STA
DIND
_HID
_CID
_STA
TEPC
TEWC
PTID
_HID
_CID
IVER
_STA
TSDL
TSD1
PSDL
OSDL
OSD1
TSDD

HwMonitor

PSDD
OSDD
SDSP
PADA
PADD
PADT
RPMD
WPMD
ISPC
ENPC
RPCS
RPEC
DGOR
SI
TZ
TRPC
TRIP
TRUP
INTM
WHTR
OSTH
LARE
LARP
CUZO
LATR
THER
THSC
MRPM
BOTT
GETK
RETD
OTHI
OTID
ECTI
OSIT
GETP
GTTP
SETM
CHOT
CPUZ
_HOT
_CRT
_TMP
GFXZ
_PSV
_PSL
_TSP
_TC1
_TC2
_CRT
_TMP
EXTZ

HwMonitor

_CRT
_TMP
LOCZ
_CRT
_TMP
BATZ
_PSV
_PSL
_TSP
_TC1
_TC2
_CRT
_TMP
CHGZ
_CRT
_TMP
NTHS
ECTE
GFRM
GFVE
GTFV
GTRM
GFSD
CTCT
GCGC
PSL_
PCHZ
_CRT
_TMP
GDTP
DTZS
DM1Z
_STA
_TMP
_CRT
DM2Z
_STA
_TMP
_CRT
SEN1
WQBI
_REV
OS
_OSI
GL
HPSA
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SFG1
SFG2
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LPDP
OSIF

HwMonitor

PRDT
GOSI
GTOS
B2I4
B2SD
B2S4
B2ST
HPMA
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RVD2
LEGF
KCDB
KLDB
TPMX
FOAL
AEDA
ALSF
HSED
HDEN
MDEN
ICPT
PMCS
RVD1
ITPS
FCIN
ASFG
WLDA
WLFL
WLIX
BTIX
WWIX
W2IX
GPSI
WIGI
TBOD
TBRB
TJMX
TRCN
LOTR
HITR
DTCD
SMHO
IVPS
WARE
WOWL
UGPS
LWSH
BLPS
URØB
ACWT
BTWT
WWIG

HwMonitor

HPGF
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EDID
PAID
PHSZ
PVSZ
BRCT
BCCT
BMAP
BCLV
BRLV
BRNT
BPWG
BPWO
PNFL
VRMS
VRMB
DCAP
WDPE
WDSA
WDST
WDGN
WDSS
BRID
VACC
ASGM
EDSZ
APTI
GDP1
GDP2
GDP3
GDP4
HDLS
SDPE
SDPG
SDPA
SDTE
SDTG
SDTA
SHSE
SHSG
SHSA
SUOE
SUOG
SUOA
GP01
GP02
GP03
GP04
VRS2
VRB2
GC6E

HwMonitor

GC6G
GC6A
GETE
GETG
GETA
DHIE
DHIG
DHIA
VHIE
VHIG
VHIA
ABNV
ABXV
DMY1
HGDG
HGD2
BIES
DPOS
AUMV
DPIR
BIDG
BID2
BID3
BID4
BID5
BID6
NSOR
GVDT
APID
NDXN
OTPA
PCPA
HPDT
TPOT
DGDI
EDV2
HPWM
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PWOT
PWOI
PUWB
PUWS
STIC
INIC
ENIC
OLIC
PWIC
BUIC
HPWV
[]
SNIN
COMD

HwMonitor

CMT
DASI
DASO
PVWB
PVWS
RTCD
HPCF
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SPPB
PPPB
ILUX
NFCS
USWE
EAX_
EBX_
ECX_
EDX_
REFS
SSCI
WOLE
WMIF
WMIT
WMIH
DFUE
TPLE
THHA
TPSA
SMAE
PFKB
CABS
IWRS
IMCM
CAIO
CAIR
CBIO
CBIR
CCIO
CCIR
CDIO
CDIR
LRES
OSTS
OSTP
WTXE
WTX0
WTX1
WTX2
WTX3
WTX4
WTX5
WTX6
WTX7

HwMonitor

WTX8
WTX9
WRD1
WRD2
SLPT
WDDA
WFLS
WLID
BTID
WWID
W2ID
GSID
WGID
VPOM
WGEN
WGR1
WGR2
WGR3
WGR4
DWRS
DWNS
DS21
DS22
DS23
DS24
DS25
DS26
DS27
DS28
DS29
DS2A
DS31
DS32
DS33
DS34
DS35
DS36
DS37
DS38
DS39
DS3A
DS41
DS42
DS43
DS44
DS45
DS46
DS47
DS48
DS49
DS4A
DSCS

HwMonitor

DSDG
NF2M
NF2A
NF2B
NF5M
NF5A
NF5B
NJ2M
NJ2A
NJ2B
NJ5M
NJ5A
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NR2B
NR5M
NR5A
NR5B
WOWA
XMEM
CDTE
SS1_
SS2_
SS3_
SS4_
GNVS
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OSYS
SMIF
PRM0
PRM1
SCIF
PRM2
PRM3
LCKF
PRM4
PRM5
P80D
PWRS
DBGS
THOF
ACT1
ACTT
PSVT
TC1V
TC2V
TSPV
CRTT
DTSE
DTS1
DTS2

HwMonitor

DTSF
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BNUM
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REVN
APIC
TCNT
PCP0
PCP1
PPCM
PPMF
C67L
NATP
CMAP
CMBP
LPTP
FDCP
CMCP
CIRP
SMSC
W381
SMC1
EMAE
EMAP
EMAL
MEFE
DSTS
MORD
TCGP
PPRP
PPRQ
LPPR
IDEM
PLID
BTYP
OSCC
NEXP
SBV1
SBV2
ECON
DSEN
GPIC
CTYP
L01C
VFN0
VFN1
VFN2

HwMonitor

VFN3
VFN4
VFN5
VFN6
VFN7
VFN8
VFN9
ATMC
PTMC
PNHM
TBAL
TBAH
RTIP
TSOD
PFLV
BREV
PDTS
PKGA
PAMT
AC0F
AC1F
DTS3
DTS4
LTR1
LTR2
LTR3
LTR4
LTR5
LTR6
LTR7
LTR8
LTR9
LTRA
LTRB
LTRC
LTRD
LTRE
LTRF
LTRG
LTRH
LTRI
LTRJ
LTRK
LTRL
LTRM
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LTRO
OBF1
OBF2
OBF3
OBF4
OBF5

HwMonitor

OBF6
OBF7
OBF8
OBF9
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OBFC
OBFD
OBFE
OBFF
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OBFH
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OBFJ
OBFK
OBF L
OBFM
OBFN
OBFO
XTUB
XTUS
XMPB
DDRF
RTD3
PEP0
PEP3
DPTF
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SADE
SACR
SAHT
CPUS
CTDP
LPMP
LPMV
ECEU
TGFG
MEMD
ATRA
PTRA
MEMC
MEMH
FND1
FND2
AMBD
AMAT
AMPT
AMCT
AMHT
SKDE
SKAT
SKPT

HwMonitor

SKCT
SKHT
EFDE
EFAT
EFPT
EFCT
EFHT
VRDE
VRAT
VRPT
VRCT
VRHT
DPAP
DPPP
DPCP
DCMP
TRTV
LPOE
LPOP
LPOS
LPOW
LPER
PPSZ
DISE
BGMA
BGMS
BGIA
IRMC
NFCE
CHEN
SØID
CTDB
DKSM
SI01
SI02
SPBA
SEC0
SEC1
SEC2
SEC3
SEC4
SEC5
SEC6
SEC7
SEC8
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WIFD
WFAT
WFPT
WFCT
WFHT
PWRE

HwMonitor

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PPPR
PBPE
VSPE
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XHPR
RIC0
GBSX
IUBE
IUCE
IUDE
ECNO
AUDD
IC0D
IC1D
IC1S
VRRD
PSCP
I20D
I21D
RCG0
RCG1
ECDB
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P2MK
SSH0
SSL0
SSD0
FMH0
FML0
FMD0
FPH0
FPL0
FPD0
SSH1
SSL1
SSD1
FMH1
FML1
FMD1
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FPL1
FPD1
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M2C1
M0C2
M1C2
M0C3

HwMonitor

M1C3
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TBSF
GIRQ
DMTP
DMTD
DMSH
SHSB
PLCS
PLVL
GN1E
G1AT
G1PT
G1CT
G1HT
GN2E
G2AT
G2PT
G2CT
G2HT
WWSO
CVSD
SSDD
INLD
IFAT
IFPT
IFCT
IFHT
SDWE
USBH
BCV4
WTV0
WTV1
APFU
SOHP
GP5F
NOHP
TBSE
WKFN
PEPC
VRSD
PB1E
GNID
WAND
WWAT
WWPT
WWCT
WWHT
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HwMonitor

MPL0
CHGE
SAC3
MEM3
AMC3
SKC3
EFC3
VRC3
WFC3
G1C3
G2C3
IFC3
WWC3
WGC3
SPST
PERE
PEAT
PEPV
PECR
PEC3
PEHT
GN3E
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G3PT
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G3HT
GN4E
G4AT
G4PT
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G4HT
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G5CT
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G5C3
G6C3
TSP1
TSP2
TSP3
TSP4
TSP5
TSP6

HwMonitor

TSP7
TSP8
SSP1
SSP2
SSP3
SSP4
SSP5
SSP6
SSP7
SSP8
MEMS
STGE
STAT
STPT
STCT
STC3
STHT
VSP1
V1AT
V1PV
V1CR
V1C3
V1HT
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V2PV
V2CR
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V2HT
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S1PT
S1CT
S1HT
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S3PT
S3CT
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S4PT
S4CT
S4HT
S5DE
S5AT
S5PT

HwMonitor

S5CT
S5HT
S6DE
S6AT
S6PT
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S1S3
S2S3
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S5S3
S6S3
S7S3
ICAE
PSME
PDT1
PLM1
PTW1
PDT2
PLM2
PTW2
DDT1
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DLI1
DPL1
DTW1
DMI1
DMA1
DMT1
DDT2
DDP2
DLI2
DPL2
DTW2
DMI2
DMA2
DMT2
WIFE
DOM1
LIM1
TIM1
DOM2
LIM2
TIM2
DOM3
LIM3

HWMonitor

TIM3
TRD0
TRL0
TRD1
TRL1
WDM1
CID1
WDM2
CID2
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APPE
MPL1
MPL2
SDS0
SDS1
SDS2
SDS3
SDS4
SDS5
SDS6
SDS7
SDS8
SDS9
SDSA
TPLB
TPLH
WTVX
WITX
GPTD
GDBT
UTKX
SPTD
GEXN
TBTS
TBWS
AICS
TARS
FPAT
FPEN
FPGN
FPLV
CPAD
CPAB
TNAT
CPGN
CF2T
TDGS
DCSC
DCKE
UDCK
SUDK
OHPN

HwMonitor

GHPN
EGPC
EGPV
TBDT
ATLB
SDM0
SDM1
SDM2
SDM3
SDM4
SDM5
SDM6
SDM7
SDM8
SDM9
SDMA
USTP
SSHI
SSLI
SSDI
FMHI
FMLI
FMDI
FPHI
FPLI
FPDI
M0CI
M1CI
M0CS
M1CS
M0CU
M1CU
CAMT
IVDF
IFWG
IVWS
IVPR
DIVO
DIVF
IVAD
IVRS
IVDG
DSPR
DDSO
DDSF
DSAD
DSRS
DVDG
EIDF
GFPS
GFPI
GNSM

HwMonitor

GNSC
GGNR
GBTW
GBTK
GBTI
GPDI
GPLI
CL00
CL01
CL02
CL03
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CDIV
C0TP
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HWMonitor

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HwMonitor

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HWMonitor

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HWMonitor

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L2H4

HWMonitor

L2H5
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L2ME
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L2A6
L2A7
L2A8
L2A9
L2AA
L2AB
L2D0
L2D1
L2D2
L2D3
L2D4
L2D5
L2D6
L2D7
L2D8
L2D9
L2DA
L2DB
L2DV
L2CV
L2LU
L2NL
L2EE

HWMonitor

L2VC
L2FS
L2DG
L2C0
L2C1
L2C2
L2C3
L2CK
L2CL
L3SM
L3H0
L3H1
L3H2
L3H3
L3H4
L3H5
L3H6
L3H7
L3H8
L3PL
L3M0
L3M1
L3M2
L3M3
L3M4
L3M5
L3M6
L3M7
L3M8
L3M9
L3MA
L3MB
L3MC
L3MD
L3ME
L3MF
L3DI
L3BS
L3A0
L3A1
L3A2
L3A3
L3A4
L3A5
L3A6
L3A7
L3A8
L3A9
L3AA
L3AB
L3D0
L3D1

HWMonitor

L3D2
L3D3
L3D4
L3D5
L3D6
L3D7
L3D8
L3D9
L3DA
L3DB
L3DV
L3CV
L3LU
L3NL
L3EE
L3VC
L3FS
L3DG
L3C0
L3C1
L3C2
L3C3
L3CK
L3CL
ECR1
[]
I2SC
ODV0
ODV1
ODV2
ODV3
ODV4
ODV5
UBCB
EMOD
WIFC
[]
TPLS
TPDB
TPDH
TPDS
ADPM
AG1L
AG1H
AG2L
AG2H
AG3L
AG3H
HEFE
XDCE
STXE
STX0

HwMonitor

STX1
STX2
STX3
STX4
STX5
STX6
STX7
STX8
STX9
RTVM
USTC
BATP
TSDB
DEPC
PDFC
IVCM
HEB1
RBY1
RBY2
SCSS
HAID
NCTC
NCTI
NCTH
HSIO
TPPT
SHAP
EIAP
ZPOD
SRSP
CEDS
EHK3
EHK4
EHK5
EHK6
EHK7
EHK8
VBVP
VBVD
VBHB
VBRL
SMSS
VBST
ADAS
PPBG
AEAB
AHDB
PBSD
DPLL
DPHL
PWIG
MESE

HwMonitor

ICAT
ICPV
ICCR
ICC3
ICHT
XSMI
PAPE
PSTW
MWLR
UP8P
MS2R
MS2P
UCSI
UCG1
UCG2
WGUR
WRFE
WRC1
WRC2
WRC3
WRC4
AWVI
[]
WTSP
WGWS
PIDE
C0VE
C0W0
C0W1
C0W2
C0W3
C0W4
C0W5
C1VE
C1W0
C1W1
C1W2
C1W3
C1W4
C1W5
C2VE
C2W0
C2W1
C2W2
C2W3
C2W4
C2W5
C3VE
C3W0
C3W1
C3W2
C3W3

HWMonitor

C3W4
C3W5
L0LE
L0PP
L0VR
L1LE
L1PP
L1VR
L2LE
L2PP
L2VR
L3LE
L3PP
L3VR
WLRP
SSRP
WIPR
TBS1
TBMP
FPA1
FPE1
FPG1
FP1L
CPD1
CPB1
CPG1
UTCM
USME
UPT1
UPT2
TWIN
TRWA
PEWE
[]
ELPM
ELPS
[]
UCRT
PNVB
PNVL
PNVA
[]
PCHS
PCHG
RPA1
RPA2
RPA3
RPA4
RPA5
RPA6
RPA7
RPA8

HwMonitor

RPA9
RPAA
RPAB
RPAC
RPAD
RPAE
RPAF
RPAG
RPAH
RPAI
RPAJ
RPAK
RPAL
RPAM
RPAN
RPAO
NHLA
NHLL
ADFM
SBRG
GPEM
G2L0
G2L1
G2L2
G2L3
G2L4
G2L5
G2L6
G2L7
G2L8
G2L9
PML1
PML2
PML3
PML4
PML5
PML6
PML7
PML8
PML9
PMLA
PMLB
PMLC
PMLD
PMLE
PMLF
PMLG
PMLH
PMLI
PMLJ
PMLK
PMLL

HwMonitor

PMLM
PMLN
PMLO
PNL1
PNL2
PNL3
PNL4
PNL5
PNL6
PNL7
PNL8
PNL9
PNLA
PNLB
PNLC
PNLD
PNLE
PNLF
PNLG
PNLH
PNLI
PNLJ
PNLK
PNLL
PNLM
PNLN
PNLO
U0C0
U1C0
XHPC
XRPC
XSPC
XSPA
HPTB
HPTE
SMD0
SMD1
SMD2
SMD3
SMD4
SMD5
SMD6
SMD7
SMD8
SMD9
SMDA
SIR0
SIR1
SIR2
SIR3
SIR4
SIR5

HwMonitor

SIR6
SIR7
SIR8
SIR9
SIRA
SB00
SB01
SB02
SB03
SB04
SB05
SB06
SB07
SB08
SB09
SB0A
SB10
SB11
SB12
SB13
SB14
SB15
SB16
SB17
SB18
SB19
SB1A
GPEN
SGIR
NIT1
NIT2
NIT3
NPM1
NPM2
NPM3
NPC1
NPC2
NPC3
NL11
NL12
NL13
ND21
ND22
ND23
ND11
ND12
ND13
NLR1
NLR2
NLR3
NLD1
NLD2

HwMonitor

NLD3
NEA1
NEA2
NEA3
NEB1
NEB2
NEB3
NEC1
NEC2
NEC3
NRA1
NRA2
NRA3
NMB1
NMB2
NMB3
NMV1
NMV2
NMV3
NPB1
NPB2
NPB3
NPV1
NPV2
NPV3
NRP1
NRP2
NRP3
[]
SXR
SXRS
CIOE
CIOI
TAEN
TIRQ
XWMB
EMH4
EMDS
CSKU
ITA0
ITA1
ITA2
ITA3
ITS0
ITS1
ITS2
ITS3
PMBS
PWRM
THEN
THDA
STRD

HwMonitor

THDS
THDH
THDD
SPTH
SPTL
PCHV
PCRR
PCRW
PCRO
PCRA
PCAO
TCBV
TCBS
PMIO
[]
[]
PBSS
[]
[]
GPEC
[]
[]
SCIS
[]
TCBA
[]
[]
[]
CPSC
PWMR
[]
[]
[]
DWLE
HWLE
[]
[]
SLS0
[]
XSQD
PMST
[]
[]
[]
USBP
[]
[]
PMFS
[]
MPMC
[]
UWAB

HwMonitor

UPCC
PLDC
TDMA
TDPG
TDTI
RDCM
WRCM
ECUP
EHLA
TBTB
TBTB
MMRP
MMTB
FFTB
CHUB
 _HID
 _STA
 _DSM
LSTA
IDPM
HPTS
HWAK
PCNT
MUTX
OSUM
WFEV
PRT0
[]
P80H
P8XH
ADBG
SPRT
[]
SSMP
_PIC
_PTS
RTMA
NV0_
[]
IND0
DAT0
[]
[]
CMS0
CMS1
_WAK
GETB
PNOT
MBAR
[]
[]
PWRU

HwMonitor

[]
PPL1
PL1E
CLP1
CLMP
PLEN
PLSV
CSEM
SPL1
RPL1
UAMS
GLCK
GUAM
P_CS
IO_H
[]
TRPH
TRAP
PICM
PRWP
GPRW
SLST
THMR
[]
[]
CTV1
CTV2
[]
PTV_
[]
PCHT
MCHT
NIST
ISTR
SRCP
SRCM
EUPC
EPLD
GPLD
TPLD
GUPC
CBRT
[]
[]
[]
APME
[]
[]
APMS
[]
SSWP
GSWS

HwMonitor

PPTS
HIDW
HIWC
S0
S3
S4
S5
PTS_
WAK_
SANV
[]
ASLB
IMON
IGDS
IBTT
IPAT
IPSC
IBIA
ISSC
IDMS
IF1E
HVCO
GSMI
PAVP
CADL
CSTE
NSTE
NDID
DID1
DID2
DID3
DID4
DID5
DID6
DID7
DID8
DID9
DIDA
DIDB
DIDC
DIDD
DIDE
DIDF
DIDX
NXD1
NXD2
NXD3
NXD4
NXD5
NXD6
NXD7
NXD8

HwMonitor

NXDX
LIDS
KSV0
KSV1
BRTL
ALSE
ALAF
LLOW
LHIH
ALFP
IMTP
EDPV
SGMD
SGFL
SGGP
HRE0
HRG0
HRA0
PWE0
PWG0
PWA0
P1GP
HRE1
HRG1
HRA1
PWE1
PWG1
PWA1
P2GP
HRE2
HRG2
HRA2
PWE2
PWG2
PWA2
DLPW
DLHR
EECP
XBAS
GBAS
NVGA
NVHA
AMDA
LTRX
OBFX
LTRY
OBFY
LTRZ
OBFZ
SMSL
SNSL
P0UB

HwMonitor

P1UB
P2UB
PCSL
PBGE
M64B
M64L
CPEX
EEC1
EEC2
SBN0
SBN1
SBN2
M32B
M32L
P0WK
P1WK
P2WK
CKM0
CKM1
CKM2
[]
[]
VHBG
SSDT
PC00
PC01
PC02
PC03
PC04
PC05
PC06
PC07
PC08
PC09
PC10
PC11
PC12
PC13
PC14
PC15
SDTL
SHAD
 _HID
 _CID
 _STA
 _DSM
EIAD
 _HID
 _S0W
 _STA
 _DSM
FEDC

HWMonitor