

HWiNFO64 v5.21-2805

Creation Time 21.02.2016 18:20

WIN-3846F5C94P7

[Current Computer]

 Computer Name:	WIN-3846F5C94P7
 Computer Brand Name:	Supermicro Super Server

[Operating System]

 Operating System:	Microsoft Windows Server 2016 Datacenter Build 10586
 UEFI Boot:	Present

Central Processor(s)

[CPU Unit Count]

 Number Of Processor Packages (Physical):	1
 Number Of Processors Cores:	8
 Number Of Logical Processors:	16

Intel Xeon D-1541

[General Information]

 Processor Name:	Intel Xeon D-1541
 Original Processor Frequency:	2100.0 MHz
 Original Processor Frequency [MHz]:	2100
 CPU ID:	00050663
 CPU Brand Name:	Intel(R) Xeon(R) CPU D-1541 @ 2.10GHz
 CPU Vendor:	GenuineIntel
 CPU Stepping:	V2

 CPU Code Name:	Broadwell-DE Server
 CPU S-Spec:	SR2DE
 CPU Thermal Design Power (TDP):	45.0 W
 CPU Thermal Design Current (TDC):	55.0 A
 CPU Power Limits (Max):	Power = 90.00 W, Time = 40.00 sec
 CPU Power Limit 1 (Long Duration):	Power = 45.00 W, Time = 1.00 sec [Unlocked]
 CPU Power Limit 2 (Short Duration):	Power = 54.00 W, Time = 7.81 ms [Unlocked]
 Configurable TDP Level 1:	45.00 W (12.50 W - 90.00 W), 1600 MHz
 Current Configurable TDP Level:	Nominal [Unlocked]
 CPU Type:	Production Unit
 CPU Platform:	BGA1667
 Microcode Update Revision:	7000005
 Number of CPU Cores:	8
 Number of Logical CPUs:	16

[Operating Points]

 CPU MFM (LowPower):	800.0 MHz = 8 x 100.0 MHz
 CPU LFM (Minimum):	800.0 MHz = 8 x 100.0 MHz
 CPU HFM (Maximum):	2100.0 MHz = 21 x 100.0 MHz
 CPU Turbo:	2700.0 MHz = 27 x 100.0 MHz [Unlocked]
 CPU Current:	2095.3 MHz = 21 x 99.8 MHz @ 0.8314 V
 Uncore Maximum:	2400.0 MHz = 24.00 x 100.0 MHz
 Uncore Current:	2394.7 MHz = 24.00 x 99.8 MHz
 CPU Bus Type:	Intel Direct Media Interface (DMI) v2.0
 Maximum DMI Link Speed:	5.0 GT/s

[IA Overclocking]

 Voltage Offset:	Not Supported
 Voltage Override:	Supported
 Ratio Overclocking:	Not Supported
 Fused Ratio Limit:	27x
 Voltage Mode:	Adaptive
 Voltage Offset:	0 mV

[GT Overclocking]

 Voltage Offset:	Not Supported
 Voltage Override:	Not Supported
 Ratio Overclocking:	Not Supported
 Fused Ratio Limit:	N/A

 Voltage Mode: Adaptive

 Voltage Offset: 0 mV

[CLR (CBo/LLC/Ring Overclocking)]

 Voltage Offset: Not Supported

 Voltage Override: Supported

 Ratio Overclocking: Not Supported

 Fused Ratio Limit: 24x

 Voltage Mode: Adaptive

 Voltage Offset: 0 mV

[Uncore Overclocking]

 Voltage Offset: Not Supported

 Voltage Override: Not Supported

 Ratio Overclocking: Not Supported

 Fused Ratio Limit: N/A

 Voltage Mode: Adaptive

 Voltage Offset: 0 mV

[Analog IO Overclocking]

 Voltage Offset: Not Supported

 Voltage Override: Not Supported

 Ratio Overclocking: Not Supported

 Fused Ratio Limit: N/A

 Voltage Mode: Adaptive

 Voltage Offset: 0 mV

[Digital IO Overclocking]

 Voltage Offset: Not Supported

 Voltage Override: Not Supported

 Ratio Overclocking: Not Supported

 Fused Ratio Limit: N/A

 Voltage Mode: Adaptive

 Voltage Offset: 0 mV

[Cache and TLB]

 L1 Cache: Instruction: 8 x 32 KBytes, Data: 8 x 32 KBytes

 L2 Cache: Integrated: 8 x 256 KBytes

 L3 Cache: 12 MBytes

 Instruction TLB: 2MB/4MB Pages, Fully associative, 8 entries

 Data TLB: 4 KB Pages, 4-way set associative, 64 entries

[Standard Feature Flags]

 FPU on Chip Present

✓ Enhanced Virtual-86 Mode	Present
✓ I/O Breakpoints	Present
✓ Page Size Extensions	Present
✓ Time Stamp Counter	Present
✓ Pentium-style Model Specific Registers	Present
✓ Physical Address Extension	Present
✓ Machine Check Exception	Present
✓ CMPXCHG8B Instruction	Present
✓ APIC On Chip / PGE (AMD)	Present
✓ Fast System Call	Present
✓ Memory Type Range Registers	Present
✓ Page Global Feature	Present
✓ Machine Check Architecture	Present
✓ CMOV Instruction	Present
✓ Page Attribute Table	Present
✓ 36-bit Page Size Extensions	Present
✗ Processor Number	Not Present
✓ CLFLUSH Instruction	Present
✓ Debug Trace and EMON Store	Present
✓ Internal ACPI Support	Present
✓ MMX Technology	Present
✓ Fast FP Save/Restore (IA MMX-2)	Present
✓ Streaming SIMD Extensions	Present
✓ Streaming SIMD Extensions 2	Present
✓ Self-Snoop	Present
✓ Multi-Threading Capable	Present
✓ Automatic Clock Control	Present
✗ IA-64 Processor	Not Present
✓ Signal Break on FERR	Present
✓ Streaming SIMD Extensions 3	Present
✓ Carryless Multiplication (PCLMULQDQ)/GFMUL	Present
✓ 64-Bit Debug Store	Present
✓ MONITOR/MWAIT Support	Present
✓ CPL Qualified Debug Store	Present
✓ Virtual Machine Extensions	Present
✓ Safer Mode Extensions (Intel TXT)	Present
✓ Thermal Monitor 2	Present
✓ Supplemental Streaming SIMD Extensions 3	Present
✓ Enhanced SpeedStep Technology	Present
✗ L1 Context ID	Not Present

✓ IA32 Debug Interface Support	Present
✓ Fused Multiply Add	Present
✓ CMPXCHG16B Support	Present
✓ Send Task Priority Messages Disabling	Present
✓ Performance/Debug Capability MSR	Present
✓ Processor Context ID	Present
✓ Direct Cache Access	Present
✓ Streaming SIMD Extensions 4.1	Present
✓ Streaming SIMD Extensions 4.2	Present
✓ Extended xAPIC	Present
✓ MOVBE Instruction	Present
✓ POPCNT Instruction	Present
✓ TSC-deadline Timer	Present
✓ AES Cryptography Support	Present
✓ XSAVE/XRSTOR/XSETBV/XGETBV Instructions	Present
✓ XGETBV/XSETBV OS Enabled	Present
✓ AVX Support	Present
✓ Float16 Instructions	Present
✓ Random Number Read Instruction	Present

[Extended Feature Flags]

✓ 64-bit Extensions	Present
✓ RDTSCP and TSC_AUX Support	Present
✓ 1 GB large page support	Present
✓ No Execute	Present
✓ SYSCALL/SYSRET Support	Present
✓ Read/Write FS/GS Base Instructions	Present
✓ TSC_THREAD_OFFSET	Present
✗ Software Guard Extensions (SGX) Support	Not Present
✓ Bit Manipulation Instructions Set 1	Present
✓ Hardware Lock Elision	Present
✓ AVX2 Instructions	Present
✓ Supervisor Mode Execution Protection	Present
✓ Bit Manipulation Instructions Set 2	Present
✓ Enhanced Performance String Instruction	Present
✓ INVPCID Instruction	Present
✓ Restricted Transactional Memory	Present
✓ Platform Quality of Service Monitoring (PQM)	Present
✓ Platform Quality of Service Enforcement (PQE)	Present
✓ Deprecated FPU CS and FPU DS	Present

✖ Memory Protection Extensions	Not Present
✖ Advanced Vector Extensions 512 (AVX-512)	Not Present
✖ AVX-512 Doubleword and Quadword Instructions	Not Present
✔ RDSEED Instruction	Present
✔ Multi-precision Add Carry Instructions	Present
✔ Supervisor Mode Access Prevention (SMAP)	Present
✖ AVX-512 52-bit Integer FMA Instructions	Not Present
✖ CLFLUSHOPT Instructions	Not Present
✔ Intel Processor Trace	Present
✖ AVX-512 Prefetch Instructions	Not Present
✖ AVX-512 Exponential and Reciprocal Instructions	Not Present
✖ AVX-512 Conflict Detection Instructions	Not Present
✖ Secure Hash Algorithm (SHA) Extensions	Not Present
✖ AVX-512 Byte and Word Instructions	Not Present
✖ AVX-512 Vector Length Extensions	Not Present
✖ PREFETCHWT1 Instruction	Not Present
✖ AVX-512 Vector Bit Manipulation Instructions	Not Present

[Enhanced Features]

✔ Thermal Monitor 1:	Supported, Enabled
✔ Thermal Monitor 2:	Supported, Enabled
✔ Enhanced Intel SpeedStep (GV3):	Supported, Enabled
✔ Bi-directional PROCHOT#:	Enabled
✔ Extended Auto-HALT State C1E:	Enabled
✖ Extended Stop Grant State C2E:	N/A
✖ Enhanced Halt State C3E:	N/A
✖ Enhanced Halt State C4E:	N/A
✖ Enhanced Halt State Hard C4E:	N/A
✖ Hardware Prefetcher:	Not Supported
✖ DCU Prefetcher:	Not Supported
✖ IP Prefetcher:	Not Supported
✖ Adjacent Cache Line Prefetch:	Not Supported
✔ MLC Streamer Prefetcher	Supported, Enabled
✔ MLC Spatial Prefetcher	Supported, Enabled
✔ DCU Streamer Prefetcher	Supported, Enabled
✔ DCU IP Prefetcher	Supported, Enabled
✖ Intel Dynamic Acceleration (IDA) Technology:	Not Supported
✖ Intel Dynamic FSB Switching:	Not Supported
✖ Enhanced Multi Threaded Thermal Management:	N/A

	Intel Turbo Boost Technology:	Supported, Enabled
	Programmable Ratio Limits:	Supported, Disabled
	Programmable TDC/TDP Limits:	Supported, Disabled

[CPU JKT/IVT/HSW Features]

	PCLMULQ Instruction:	Disabled
	PECI:	Disabled
	ART (Always Running APIC Timer):	Disabled
	Segment-Limit Checking 64-Bit Mode:	Disabled
	GSSE256 Instructions:	Disabled
	XSAVEOPT:	Disabled
	XSAVE:	Disabled
	AES:	Disabled
	TSC Deadline:	Disabled
	SMI Inhibit with Opt-out SMM:	Disabled
	LT SX (TXT for Servers):	Enabled
	LT Production:	Enabled
	SMX:	Disabled
	VMX:	Disabled
	VT-x3:	Enabled
	VT Real Mode:	Enabled
	VT CPAUSE:	Enabled
	Multi-Threading:	Disabled
	Programmable TDP Limits:	Enabled
	EP 4S Config:	Enabled
	EP (1S/2S) Config:	Enabled
	EN (1S/2S) Config:	Enabled
	UP (1S/WS) Config:	Enabled
	Memory Channel Mirroring Mode:	Disabled
	Memory LT Support:	Disabled
	Memory Frequency Support:	Over-Clocking Supported
	Soft SKU Feature:	Enabled
	QoS:	Disabled
	Extended APIC:	Enabled
	CPU HOT ADD:	Enabled
	RAS (Data Poisoning, MCA Recovery):	Enabled
	DCA:	Enabled
	QPI Link 1:	Disabled
	QPI Link 0:	Disabled
	Maximum Supported QPI ratio:	6.4 GT/s

 NTB:	Disabled
 RAID-on-load:	Disabled
 PCIe LT SX:	Disabled
 PCIe LT:	Disabled
 PCIe Gen 3:	Disabled
 PCIe DMA:	Disabled
 DMI:	Disabled
 Patrol Scrub:	Disabled
 Rank Sparing:	Disabled
 LOCKSTEP:	Disabled
 CLTT:	Disabled
 3N Mode:	Disabled
 4Gb DDR3:	Disabled
 8Gb DDR3:	Disabled
 UDIMM Support:	Disabled
 RDIMM Support:	Disabled
 DIR:	Disabled
 ECC:	Disabled
 QR DIMM:	Disabled
 Memory Channel 0:	Disabled
 Memory Channel 1:	Disabled
 Memory Channel 2:	Disabled
 Memory Channel 3:	Disabled

[Memory Ranges]

 Maximum Physical Address Size:	46-bit (64 TBytes)
 Maximum Virtual Address Size:	48-bit (256 TBytes)

[MTRRs]

 Range 80000000-100000000 (2048MB-4096MB) Type:	Uncacheable (UC)
 Range 380000000000-384000000000 (58720256MB-58982400MB) Type:	Uncacheable (UC)
 Range FBA00000-FBC00000 (4026MB-4028MB) Type:	Write Through (WT)
 Range FBC00000-FBE00000 (4028MB-4030MB) Type:	Write Through (WT)
 Range FBE00000-FBF00000 (4030MB-4031MB) Type:	Write Through (WT)

Motherboard

 [Computer] **Computer Brand Name:** **Supermicro Super Server** **[Motherboard]** **Motherboard Model:** **Supermicro X10SDV-TLN4F** **Motherboard Chipset:** **Intel C224 (Lynx Point Server Standard)** **Motherboard Slots:** 1xPCI Express x1, 2xPCI Express x4, 1xPCI Express x16 **PCI Express Version Supported:** v3.0 **USB Version Supported:** v3.0 **PCH PEG/DMI Ratio:** 5/5 **[BIOS]** **BIOS Manufacturer:** American Megatrends Inc. **BIOS Date:** 01/04/2016 **BIOS Version:** 1.0c **UEFI BIOS:** Capable **Super-I/O/LPC Chip:** Unknown

ACPI Devices

Microsoft Generic IPMI Compliant Device

 **Device Name:** Microsoft Generic IPMI Compliant Device **[Assigned Resources]** **I/O Port:** 0CA2 **[Alternative 1]** **I/O Port:** 0CA2 **I/O Port:** 0CA3

Programmable interrupt controller

 Device Name: Programmable interrupt controller

[Assigned Resources]

 I/O Port: 0020 - 003D

[Alternative 1]

 I/O Port: 0020 - 003D

 I/O Port: 00A0 - 00BD

 I/O Port: 04D0 - 04D1

Advanced programmable interrupt controller

 Device Name: Advanced programmable interrupt controller

[Assigned Resources]

 Memory Location: FEC00000 - FECFFFFFF

[Alternative 1]

 Memory Location: FEC00000 - FECFFFFFF

System timer

 Device Name: System timer

[Assigned Resources]

 I/O Port: 0040 - 0043

 DMA: 0

[Alternative 1]

 I/O Port: 0040 - 0043

 I/O Port: 0050 - 0053

 IRQ: 0

High precision event timer

 Device Name: High precision event timer

 [Assigned Resources] Memory Location: FED00000 - FED003FF **[Alternative 1]** Memory Location: FED00000 - FED003FF

Direct memory access controller

 Device Name: Direct memory access controller **[Assigned Resources]** I/O Port: 0000 - 000F I/O Port: 008F Memory Location: 00000000 - 00000086 **[Alternative 1]** I/O Port: 0000 - 000F I/O Port: 0081 - 0083 I/O Port: 0087 I/O Port: 0089 - 008B I/O Port: 008F I/O Port: 00C0 - 00DF DMA: 4

Communications Port

 Device Name: Communications Port **[Assigned Resources]** I/O Port: 03F8 - 03FF **[Alternative 1]** I/O Port: 03F8 - 03FF IRQ: 4 **[Alternative 2]**

 I/O Port:	03F8 - 03FF
 IRQ:	3
 IRQ:	4
 IRQ:	5
 IRQ:	7
 IRQ:	9
 IRQ:	10
 IRQ:	11
 IRQ:	12

 [Alternative 3]

 I/O Port:	02F8 - 02FF
 IRQ:	3
 IRQ:	4
 IRQ:	5
 IRQ:	7
 IRQ:	9
 IRQ:	10
 IRQ:	11
 IRQ:	12

 [Alternative 4]

 I/O Port:	03E8 - 03EF
 IRQ:	3
 IRQ:	4
 IRQ:	5
 IRQ:	7
 IRQ:	9
 IRQ:	10
 IRQ:	11
 IRQ:	12

 [Alternative 5]

 I/O Port:	02E8 - 02EF
 IRQ:	3
 IRQ:	4
 IRQ:	5
 IRQ:	7
 IRQ:	9
 IRQ:	10

 IRQ:	11
 IRQ:	12

Communications Port

 Device Name:	Communications Port
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[Assigned Resources]

 I/O Port:	02F8 - 02FF
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[Alternative 1]

 I/O Port:	02F8 - 02FF
 IRQ:	3

[Alternative 2]

 I/O Port:	03F8 - 03FF
 IRQ:	3
 IRQ:	4
 IRQ:	5
 IRQ:	7
 IRQ:	9
 IRQ:	10
 IRQ:	11
 IRQ:	12

[Alternative 3]

 I/O Port:	02F8 - 02FF
 IRQ:	3
 IRQ:	4
 IRQ:	5
 IRQ:	7
 IRQ:	9
 IRQ:	10
 IRQ:	11
 IRQ:	12

[Alternative 4]

 I/O Port:	03E8 - 03EF
 IRQ:	3

 IRQ:	4
 IRQ:	5
 IRQ:	7
 IRQ:	9
 IRQ:	10
 IRQ:	11
 IRQ:	12

[Alternative 5]

 I/O Port:	02E8 - 02EF
 IRQ:	3
 IRQ:	4
 IRQ:	5
 IRQ:	7
 IRQ:	9
 IRQ:	10
 IRQ:	11
 IRQ:	12

System speaker

 Device Name:	System speaker
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[Assigned Resources]

 I/O Port:	0061
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[Alternative 1]

 I/O Port:	0061
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PCI Bus

 Device Name:	PCI Bus
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[Assigned Resources]

[Alternative 1]

PCI Express Root Complex

 Device Name: PCI Express Root Complex

[Assigned Resources]

 I/O Port: 0000 - FFFFFFFF
 Memory Location: 000A0000 - 000BFFFF

[Alternative 1]

 I/O Port: 0000 - 0CF7
 I/O Port: 1000 - FFFF
 Memory Location: 000A0000 - 000BFFFF
 Memory Location: 90000000 - FBFFBFFF

System CMOS/real time clock

 Device Name: System CMOS/real time clock

[Assigned Resources]

 I/O Port: 0070 - 0071
 DMA: 0

[Alternative 1]

 I/O Port: 0070 - 0071
 I/O Port: 0074 - 0077
 IRQ: 8

Motherboard resources

 Device Name: Motherboard resources

[Assigned Resources]

 I/O Port: 0A00 - 0A0F

[Alternative 1]

 I/O Port: 0A00 - 0A0F
I/O Port: 0A10 - 0A1F



I/O Port:	0A20 - 0A2F
I/O Port:	0A30 - 0A3F
I/O Port:	0A40 - 0A4F

Motherboard resources



Device Name: Motherboard resources



[Assigned Resources]



I/O Port: 0500 - 057F



I/O Port: 0072 - 0073



I/O Port: 0000 - 0083



I/O Port: 008C - 008E



I/O Port: 0880 - 0883



Memory Location: FF000000 - FFFFFFFF



[Alternative 1]



I/O Port: 0500 - 057F



I/O Port: 0400 - 047F



I/O Port: 0092



I/O Port: 0010 - 001F



I/O Port: 0072 - 0073



I/O Port: 0080



I/O Port: 0084 - 0086



I/O Port: 0088



I/O Port: 008C - 008E



I/O Port: 0090 - 009F



I/O Port: 0580 - 059F



I/O Port: 0600 - 061F



I/O Port: 0880 - 0883



I/O Port: 0800 - 081F



Memory Location: FED1C000 - FED3FFFF



Memory Location: FED45000 - FED8BFFF



Memory Location: FF000000 - FFFFFFFF



Memory Location: FEE00000 - FEEFFFFFFF



Memory Location: FED12000 - FED1200F



Memory Location: FED12010 - FED1201F

 Memory Location: FED1B000 - FED1BFFF

Numeric data processor

 Device Name: Numeric data processor

[Assigned Resources]

 I/O Port: 00F0

[Alternative 1]

 I/O Port: 00F0

 IRQ: 13

SMBIOS DMI

BIOS

 BIOS Vendor: American Megatrends Inc.

 BIOS Version: 1.0c

 BIOS Release Date: 01/04/2016

 BIOS Start Segment: F000

 BIOS Size: 16384 KBytes

 System BIOS Version: 5.6

 ISA Support: Not Present

 MCA Support: Not Present

 EISA Support: Not Present

 PCI Support: Present

 PC Card (PCMCIA) Support: Not Present

 Plug-and-Play Support: Not Present

 APM Support: Not Present

 Flash BIOS: Present

	BIOS Shadow:	Present
	VL-VESA Support:	Not Present
	ESCD Support:	Not Present
	Boot from CD:	Present
	Selectable Boot:	Present
	BIOS ROM Socketed:	Present
	Boot from PC Card:	Not Present
	EDD Support:	Present
	NEC PC-98 Support:	Not Present
	ACPI Support:	Present
	USB Legacy Support:	Present
	AGP Support:	Not Present
	I2O Boot Support:	Not Present
	LS-120 Boot Support:	Not Present
	ATAPI ZIP Drive Boot Support:	Not Present
	IEE1394 Boot Support:	Not Present
	Smart Battery Support:	Not Present
	BIOS Boot Specification Support:	Present
	Function key-initiated Network Service Boot Support:	Not Present
	Targeted Content Distribution Support:	Present
	UEFI Specification Support:	Present

System

	System Manufacturer:	Supermicro
	Product Name:	Super Server
	Product Version:	0123456789
	Product Serial Number:	0123456789
	SKU Number:	To be filled by O.E.M.
	Family:	To be filled by O.E.M.

Mainboard

	Mainboard Manufacturer:	Supermicro
	Mainboard Name:	X10SDV-TLN4F
	Mainboard Version:	2.00

 Mainboard Serial Number:	ZM161S031532
 Asset Tag:	To be filled by O.E.M.
 Location in chassis:	To be filled by O.E.M.

System Enclosure

 Manufacturer:	Supermicro
 Case Type:	Main Server Chassis
 Version:	0123456789
 Serial Number:	0123456789
 Asset Tag Number:	To Be Filled By O.E.M.

OEM Strings

	Intel Broadwell-DE processor SoC
	Supermicro motherboard-X10 Series

System Configuration Options

	To Be Filled By O.E.M.
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System Boot Information

 Boot Status:	No error occurred
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Voltage Probe

 Description:	LM78A
 Location:	Power Unit
 Status:	OK
 Maximum Value:	Unknown
 Minimum Value:	Unknown

 Resolution:	Unknown
 Tolerance:	Unknown
 Accuracy:	Unknown

Temperature Probe

 Description:	LM78A
 Location:	Power Unit
 Status:	OK
 Maximum Value:	Unknown
 Minimum Value:	Unknown
 Resolution:	Unknown
 Tolerance:	Unknown
 Accuracy:	Unknown

Cooling Device

 Type:	Power Supply Fan
 Description:	Cooling Dev 1
 Status:	OK

Electrical Current Probe

 Description:	ABC
 Location:	Power Unit
 Status:	OK
 Maximum Value:	Unknown
 Minimum Value:	Unknown
 Resolution:	Unknown
 Tolerance:	Unknown
 Accuracy:	Unknown

System Power Supply

 Location:	To Be Filled By O.E.M.
 Device 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 Number:	To Be Filled By O.E.M.
 Model Part Number:	To Be Filled By O.E.M.
 Revision Level:	To Be Filled By O.E.M.
 Power Supply Status:	Present
 Power Supply Type:	Switching
 Power Status:	OK
 Hot replaceable:	No
 Unplugged from wall:	No

System Power Supply

 Location:	To Be Filled By O.E.M.
 Device 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 Number:	To Be Filled By O.E.M.
 Model Part Number:	To Be Filled By O.E.M.
 Revision Level:	To Be Filled By O.E.M.
 Power Supply Status:	Present
 Power Supply Type:	Switching
 Power Status:	OK
 Hot replaceable:	No
 Unplugged from wall:	No

On Board Device

 Device Description:	ASPEED Video AST2400
 Device Type:	Video Adapter
 Device Status:	Enabled

On Board Device

 Device Description:	Intel i350 Ethernet #1
 Device Type:	Ethernet Adapter
 Device Status:	Enabled

On Board Device

 Device Description:	Intel i350 Ethernet #2
 Device Type:	Ethernet Adapter
 Device Status:	Enabled

On Board Device

 Device Description:	Intel X557-AT2 Ethernet #1
 Device Type:	Ethernet Adapter
 Device Status:	Enabled

On Board Device

 Device Description:	Intel X557-AT2 Ethernet #2
 Device Type:	Ethernet Adapter
 Device Status:	Enabled

IPMI

 IPMI Interface Type:	KCS (Keyboard Controller Style)
 IPMI Specification Version:	2.0
 I2C Slave Address:	20h

 Base Address: I/O 0CA2

System Event Log

CPU Internal L1

 Socket Designation:	CPU Internal L1
 Cache State:	Enabled
 Cache Type:	Internal
 Cache Scheme:	Write-Back
 Supported SRAM Type:	
 Current SRAM Type:	
 Cache Speed:	Unknown
 Error Correction Type:	
 Maximum Cache Size:	512 KBytes
 Installed Cache Size:	512 KBytes
 Cache Associativity:	8-way Set-Associative

CPU Internal L2

 Socket Designation:	CPU Internal L2
 Cache State:	Enabled
 Cache Type:	Internal, Unified
 Cache Scheme:	Write-Back
 Supported SRAM Type:	
 Current SRAM Type:	
 Cache Speed:	Unknown
 Error Correction Type:	
 Maximum Cache Size:	2048 KBytes
 Installed Cache Size:	2048 KBytes
 Cache Associativity:	8-way Set-Associative

CPU Internal L3

 Socket Designation:	CPU Internal L3
 Cache State:	Enabled
 Cache Type:	Internal, Unified
 Cache Scheme:	Write-Back
 Supported SRAM Type:	
 Current SRAM Type:	
 Cache Speed:	Unknown
 Error Correction Type:	
 Maximum Cache Size:	12288 KBytes
 Installed Cache Size:	12288 KBytes
 Cache Associativity:	Unknown

Processor

 Processor Manufacturer:	Intel
 Processor Version:	Intel(R) Xeon(R) CPU D-1541 @ 2.10GHz
 External Clock:	100 MHz
 Maximum Clock Supported:	4000 MHz
 Current Clock:	2100 MHz
 CPU Socket:	Populated
 CPU Status:	Enabled
 Processor Type:	Central Processor
 Processor Voltage:	1.8 V
 Processor Upgrade:	Unknown (1)
 Socket Designation:	CPU1

BIOS Language



en|US|iso8859-1 <Active>

Memory Devices

Physical Memory Array

 Array Location:	System board
 Array Use:	System memory
 Error Detecting Method:	Multi-bit ECC
 Memory Capacity:	134217728 KBytes
 Memory Devices:	4

Memory Array Mapped Address

 Starting Address:	00000000
 Ending Address:	11866002501402624
 Partition Width:	4

Memory Device

 Total Width:	72 bits
 Data Width:	64 bits
 Device Size:	32768 MBytes
 Device Form Factor:	DIMM
 Device Locator:	DIMMA1
 Bank Locator:	P0_Node0_Channel0_Dimm0
 Device Type:	DDR4
 Device Type Detail:	Synchronous
 Memory Speed:	2133 MHz
 Manufacturer:	Samsung
 Serial Number:	41769D76
 Part Number:	M393A4K40BB0-CPB
 Asset Tag:	(Date:15/42)

Memory Device Mapped Address

 Starting Address:	00000000
 Ending Address:	01FFFFFF

 Partition Row Position:	1
 Interleave Position:	Non-interleaved
 Interleave Data Depth:	0

Memory Device

 Total Width:	72 bits
 Data Width:	64 bits
 Device Size:	32768 MBytes
 Device Form Factor:	DIMM
 Device Locator:	DIMMA2
 Bank Locator:	P0_Node0_Channel0_Dimm1
 Device Type:	DDR4
 Device Type Detail:	Synchronous
 Memory Speed:	2133 MHz
 Manufacturer:	Samsung
 Serial Number:	41769D83
 Part Number:	M393A4K40BB0-CPB
 Asset Tag:	(Date:15/42)

Memory Device Mapped Address

 Starting Address:	02000000
 Ending Address:	03FFFFFF
 Partition Row Position:	1
 Interleave Position:	Non-interleaved
 Interleave Data Depth:	0

Memory Device

 Total Width:	72 bits
 Data Width:	64 bits
 Device Size:	32768 MBytes
 Device Form Factor:	DIMM
 Device Locator:	DIMMB1

 Bank Locator:	P0_Node0_Channel1_Dimm0
 Device Type:	DDR4
 Device Type Detail:	Synchronous
 Memory Speed:	2133 MHz
 Manufacturer:	Samsung
 Serial Number:	41769EB1
 Part Number:	M393A4K40BB0-CPB
 Asset Tag:	(Date:15/42)

Memory Device Mapped Address

 Starting Address:	04000000
 Ending Address:	05FFFFFF
 Partition Row Position:	1
 Interleave Position:	Non-interleaved
 Interleave Data Depth:	0

Memory Device

 Total Width:	72 bits
 Data Width:	64 bits
 Device Size:	32768 MBytes
 Device Form Factor:	DIMM
 Device Locator:	DIMMB2
 Bank Locator:	P0_Node0_Channel1_Dimm1
 Device Type:	DDR4
 Device Type Detail:	Synchronous
 Memory Speed:	2133 MHz
 Manufacturer:	Samsung
 Serial Number:	41769DBE
 Part Number:	M393A4K40BB0-CPB
 Asset Tag:	(Date:15/42)

Memory Device Mapped Address

 Starting Address:	06000000
 Ending Address:	07FFFFFF
 Partition Row Position:	1
 Interleave Position:	Non-interleaved
 Interleave Data Depth:	0

Port Connectors

Video Port

 Port Type:	Video Port
 Internal Reference:	JVGA1
 Internal Connector Type:	None
 External Reference:	VGA
 External Connector Type:	DB-15 pin female

Network Port

 Port Type:	Network Port
 Internal Reference:	LAN1
 Internal Connector Type:	None
 External Reference:	LAN1
 External Connector Type:	RJ-45

Network Port

 Port Type:	Network Port
 Internal Reference:	LAN2
 Internal Connector Type:	None
 External Reference:	LAN2
 External Connector Type:	RJ-45

Network Port

 Port Type:	Network Port
 Internal Reference:	LAN3
 Internal Connector Type:	None
 External Reference:	LAN3
 External Connector Type:	RJ-45

Network Port

 Port Type:	Network Port
 Internal Reference:	LAN4
 Internal Connector Type:	None
 External Reference:	LAN4
 External Connector Type:	RJ-45

Network Port

 Port Type:	Network Port
 Internal Reference:	IPMI_LAN
 Internal Connector Type:	None
 External Reference:	IPMI_LAN
 External Connector Type:	RJ-45

USB

 Port Type:	USB
 Internal Reference:	USB0
 Internal Connector Type:	None
 External Reference:	USB0
 External Connector Type:	Access Bus (USB)

USB

 Port Type:	USB
 Internal Reference:	USB1
 Internal Connector Type:	None
 External Reference:	USB1
 External Connector Type:	Access Bus (USB)

Port Connector

 Port Type:	Unknown
 Internal Reference:	JTPM1
 Internal Connector Type:	Unknown
 External Reference:	Unknown
 External Connector Type:	None

Port Connector

 Port Type:	Unknown
 Internal Reference:	COM1
 Internal Connector Type:	Unknown
 External Reference:	Unknown
 External Connector Type:	None

Port Connector

 Port Type:	Unknown
 Internal Reference:	USB 2/3
 Internal Connector Type:	Unknown
 External Reference:	Unknown
 External Connector Type:	None

Port Connector

 Port Type:	Unknown
 Internal Reference:	USB 4/5
 Internal Connector Type:	Unknown
 External Reference:	Unknown
 External Connector Type:	None

Port Connector

 Port Type:	Unknown
 Internal Reference:	SATA1
 Internal Connector Type:	Unknown
 External Reference:	Unknown
 External Connector Type:	None

Port Connector

 Port Type:	Unknown
 Internal Reference:	SATA 2
 Internal Connector Type:	Unknown
 External Reference:	Unknown
 External Connector Type:	None

Port Connector

 Port Type:	Unknown
 Internal Reference:	SATA 3
 Internal Connector Type:	Unknown
 External Reference:	Unknown
 External Connector Type:	None

Port Connector

 Port Type:	Unknown
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 Internal Reference:	SATA 4
 Internal Connector Type:	Unknown
 External Reference:	Unknown
 External Connector Type:	None

Port Connector

 Port Type:	Unknown
 Internal Reference:	SATA 5
 Internal Connector Type:	Unknown
 External Reference:	Unknown
 External Connector Type:	None

Port Connector

 Port Type:	Unknown
 Internal Reference:	SATA 6
 Internal Connector Type:	Unknown
 External Reference:	Unknown
 External Connector Type:	None

System Slots

M.2 PCI-E 3.0 X4

 Slot Designation:	M.2 PCI-E 3.0 X4
 Slot Type:	M.2 Socket 1-DP (Mechanical Key A)
 Slot Usage:	In use
 Slot Data Bus Width:	4x / x4
 Slot Length:	Long

SLOT7 PCI-E 3.0 X16

 Slot Designation:	SLOT7 PCI-E 3.0 X16
 Slot Type:	PCI Express Gen3 x16
 Slot Usage:	In use
 Slot Data Bus Width:	16x / x16
 Slot Length:	Long

Memory

[General information]

 Total Memory Size:	128 GBytes
 Total Memory Size [MB]:	131072

[Current Performance Settings]

 Current Memory Clock:	1064.3 MHz
 Current Timing (tCAS-tRCD-tRP-tRAS):	15.0-15-15-36
 Memory Runs At:	Dual-Channel

 Command Rate:	1T
 Read to Read Delay (tRD_RD) Different Rank:	1T
 Read to Read Delay (tRD_RD) Different DIMM:	1T
 Write to Write Delay (tWR_WR) Different Rank:	3T
 Write to Write Delay (tWR_WR) Different DIMM:	3T
 Read to Write Delay (tRD_WR) Different DIMM:	2T
 Write to Read Delay (tWR_RD) Different Rank:	1T
 Write to Read Delay (tWR_RD) Different DIMM:	2T
 Read to Precharge Delay (tRTP):	8T
 Write to Precharge Delay (tWTP):	27T
 Write Recovery Time (tWR):	16T
 RAS# to RAS# Delay (tRRD):	4T
 Refresh Cycle Time (tRFC):	374T
 Four Activate Window (tFAW):	16T

Row: 0 - 32768 MB PC4-17000 DDR4 SDRAM Samsung M393A4K40BB0-CPB

[General Module Information]

 Module Number:	0
 Module Size:	32768 MBytes
 Memory Type:	DDR4 SDRAM
 Module Type:	Registered DIMM (RDIMM)
 Memory Speed:	1066.1 MHz (DDR4-2132 / PC4-17000)
 Module Manufacturer:	Samsung
 Module Part Number:	M393A4K40BB0-CPB
 Module Revision:	0.0
 Module Serial Number:	1990030913
 Module Manufacturing Date:	Year: 2015, Week: 42
 Module Manufacturing Location:	2
 SDRAM Manufacturer:	Samsung
 DRAM Stepping:	0.0

[Module Characteristics]

 Row Address Bits:	17
 Column Address Bits:	10
 Module Density:	8192 Mb
 Number Of Ranks:	2
 Device Width:	4 bits
 Bus Width:	72 bits
 Die Count:	1
 Module Nominal Voltage (VDD):	1.2 V
 Minimum SDRAM Cycle Time (tCKAVGmin):	0.93800 ns
 Maximum SDRAM Cycle Time (tCKAVGmax):	1.50000 ns
 CAS# Latencies Supported:	10, 11, 12, 13, 14, 15, 16
 Minimum CAS# Latency Time (tAAmin):	13.750 ns
 Minimum RAS# to CAS# Delay (tRCDmin):	13.750 ns
 Minimum Row Precharge Time (tRPmin):	13.750 ns
 Minimum Active to Precharge Time (tRASmin):	33.000 ns
 Supported Module Timing at 1066.1 MHz:	15-15-15-36

 Supported Module Timing at 1000.0 MHz:	14-14-14-33
 Supported Module Timing at 933.3 MHz:	13-13-13-31
 Supported Module Timing at 866.7 MHz:	12-12-12-29
 Supported Module Timing at 800.0 MHz:	11-11-11-27
 Supported Module Timing at 733.3 MHz:	11-11-11-25
 Supported Module Timing at 666.7 MHz:	10-10-10-22

 Minimum Active to Active/Refresh Time (tRCmin):	46.750 ns
 Minimum Refresh Recovery Time Delay (tRFC1min):	350.000 ns
 Minimum Refresh Recovery Time Delay (tRFC2min):	260.000 ns
 Minimum Refresh Recovery Time Delay (tRFC4min):	160.000 ns
 Minimum Four Activate Window Delay Time (tFAWmin):	15.000 ns
 Minimum Active to Active Delay Time - Different Bank Group (tRRD_Smin):	3.700 ns
 Minimum Active to Active Delay Time - Same Bank Group (tRRD_Lmin):	5.300 ns
 Minimum CAS to CAS Delay Time - Same Bank Group (tCCD_Lmin):	5.625 ns

[Features]

 Module Temperature Sensor (TSOD):	Supported
 Temperature Sensor Location:	Front Side
 Module Nominal Height:	31 - 32 mm
 Module Maximum Thickness (Front):	1 - 2 mm
 Module Maximum Thickness (Back):	1 - 2 mm
 Number of Registers:	2
 Heat Spreader:	Not Present
 Register Manufacturer:	IDT
 Register Revision:	3.0
 Address Mapping from Register to DRAM:	Mirrored

Row: 1 - 32768 MB PC4-17000 DDR4 SDRAM Samsung M393A4K40BB0-CPB

[General Module Information]

 Module Number:	1
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 Module Size:	32768 MBytes
 Memory Type:	DDR4 SDRAM
 Module Type:	Registered DIMM (RDIMM)
 Memory Speed:	1066.1 MHz (DDR4-2132 / PC4-17000)
 Module Manufacturer:	Samsung
 Module Part Number:	M393A4K40BB0-CPB
 Module Revision:	0.0
 Module Serial Number:	2208134721
 Module Manufacturing Date:	Year: 2015, Week: 42
 Module Manufacturing Location:	2
 SDRAM Manufacturer:	Samsung
 DRAM Stepping:	0.0

[Module Characteristics]

 Row Address Bits:	17
 Column Address Bits:	10
 Module Density:	8192 Mb
 Number Of Ranks:	2
 Device Width:	4 bits
 Bus Width:	72 bits
 Die Count:	1
 Module Nominal Voltage (VDD):	1.2 V
 Minimum SDRAM Cycle Time (tCKAVGmin):	0.93800 ns
 Maximum SDRAM Cycle Time (tCKAVGmax):	1.50000 ns
 CAS# Latencies Supported:	10, 11, 12, 13, 14, 15, 16
 Minimum CAS# Latency Time (tAmin):	13.750 ns
 Minimum RAS# to CAS# Delay (tRCDmin):	13.750 ns
 Minimum Row Precharge Time (tRPmin):	13.750 ns
 Minimum Active to Precharge Time (tRASmin):	33.000 ns
 Supported Module Timing at 1066.1 MHz:	15-15-15-36
 Supported Module Timing at 1000.0 MHz:	14-14-14-33
 Supported Module Timing at 933.3 MHz:	13-13-13-31
 Supported Module Timing at 866.7 MHz:	12-12-12-29
 Supported Module Timing at 800.0 MHz:	11-11-11-27
 Supported Module Timing at 733.3 MHz:	11-11-11-25

 Supported Module Timing at 666.7 MHz: 10-10-10-22

 Minimum Active to Active/Refresh Time (tRCmin):	46.750 ns
 Minimum Refresh Recovery Time Delay (tRFC1min):	350.000 ns
 Minimum Refresh Recovery Time Delay (tRFC2min):	260.000 ns
 Minimum Refresh Recovery Time Delay (tRFC4min):	160.000 ns
 Minimum Four Activate Window Delay Time (tFAWmin):	15.000 ns
 Minimum Active to Active Delay Time - Different Bank Group (tRRD_Smin):	3.700 ns
 Minimum Active to Active Delay Time - Same Bank Group (tRRD_Lmin):	5.300 ns
 Minimum CAS to CAS Delay Time - Same Bank Group (tCCD_Lmin):	5.625 ns

[Features]

 Module Temperature Sensor (TSOD):	Supported
 Temperature Sensor Location:	Front Side
 Module Nominal Height:	31 - 32 mm
 Module Maximum Thickness (Front):	1 - 2 mm
 Module Maximum Thickness (Back):	1 - 2 mm
 Number of Registers:	2
 Heat Spreader:	Not Present
 Register Manufacturer:	IDT
 Register Revision:	3.0
 Address Mapping from Register to DRAM:	Mirrored

Row: 2 - 32768 MB PC4-17000 DDR4 SDRAM Samsung M393A4K40BB0-CPB

[General Module Information]

 Module Number:	2
 Module Size:	32768 MBytes
 Memory Type:	DDR4 SDRAM
 Module Type:	Registered DIMM (RDIMM)
 Memory Speed:	1066.1 MHz (DDR4-2132 / PC4-17000)
 Module Manufacturer:	Samsung
Module Part Number:	M393A4K40BB0-CPB



Module Revision:	0.0
Module Serial Number:	2979952193
Module Manufacturing Date:	Year: 2015, Week: 42
Module Manufacturing Location:	2
SDRAM Manufacturer:	Samsung
DRAM Steppping:	0.0

**[Module Characteristics]**

Row Address Bits:	17
Column Address Bits:	10
Module Density:	8192 Mb
Number Of Ranks:	2
Device Width:	4 bits
Bus Width:	72 bits
Die Count:	1
Module Nominal Voltage (VDD):	1.2 V
Minimum SDRAM Cycle Time (tCKAVGmin):	0.93800 ns
Maximum SDRAM Cycle Time (tCKAVGmax):	1.50000 ns
CAS# Latencies Supported:	10, 11, 12, 13, 14, 15, 16
Minimum CAS# Latency Time (tAAmin):	13.750 ns
Minimum RAS# to CAS# Delay (tRCDmin):	13.750 ns
Minimum Row Precharge Time (tRPmin):	13.750 ns
Minimum Active to Precharge Time (tRASmin):	33.000 ns
Supported Module Timing at 1066.1 MHz:	15-15-15-36
Supported Module Timing at 1000.0 MHz:	14-14-14-33
Supported Module Timing at 933.3 MHz:	13-13-13-31
Supported Module Timing at 866.7 MHz:	12-12-12-29
Supported Module Timing at 800.0 MHz:	11-11-11-27
Supported Module Timing at 733.3 MHz:	11-11-11-25
Supported Module Timing at 666.7 MHz:	10-10-10-22
Minimum Active to Active/Refresh Time (tRCmin):	46.750 ns
Minimum Refresh Recovery Time Delay (tRFC1min):	350.000 ns

 Minimum Refresh Recovery Time Delay (tRFC2min):	260.000 ns
 Minimum Refresh Recovery Time Delay (tRFC4min):	160.000 ns
 Minimum Four Activate Window Delay Time (tFAWmin):	15.000 ns
 Minimum Active to Active Delay Time - Different Bank Group (tRRD_Smin):	3.700 ns
 Minimum Active to Active Delay Time - Same Bank Group (tRRD_Lmin):	5.300 ns
 Minimum CAS to CAS Delay Time - Same Bank Group (tCCD_Lmin):	5.625 ns

[Features]

 Module Temperature Sensor (TSOD):	Supported
 Temperature Sensor Location:	Front Side
 Module Nominal Height:	31 - 32 mm
 Module Maximum Thickness (Front):	1 - 2 mm
 Module Maximum Thickness (Back):	1 - 2 mm
 Number of Registers:	2
 Heat Spreader:	Not Present
 Register Manufacturer:	IDT
 Register Revision:	3.0
 Address Mapping from Register to DRAM:	Mirrored

Row: 3 - 32768 MB PC4-17000 DDR4 SDRAM Samsung M393A4K40BB0-CPB

[General Module Information]

 Module Number:	3
 Module Size:	32768 MBytes
 Memory Type:	DDR4 SDRAM
 Module Type:	Registered DIMM (RDIMM)
 Memory Speed:	1066.1 MHz (DDR4-2132 / PC4-17000)
 Module Manufacturer:	Samsung
 Module Part Number:	M393A4K40BB0-CPB
 Module Revision:	0.0
 Module Serial Number:	3197990465
 Module Manufacturing Date:	Year: 2015, Week: 42
 Module Manufacturing Location:	2
SDRAM Manufacturer:	Samsung



DRAM Steppping: 0.0



[Module Characteristics]



Row Address Bits: 17



Column Address Bits: 10



Module Density: 8192 Mb



Number Of Ranks: 2



Device Width: 4 bits



Bus Width: 72 bits



Die Count: 1



Module Nominal Voltage (VDD): 1.2 V



Minimum SDRAM Cycle Time (tCKAVGmin): 0.93800 ns



Maximum SDRAM Cycle Time (tCKAVGmax): 1.50000 ns



CAS# Latencies Supported: 10, 11, 12, 13, 14, 15, 16



Minimum CAS# Latency Time (tAamin): 13.750 ns



Minimum RAS# to CAS# Delay (tRCDmin): 13.750 ns



Minimum Row Precharge Time (tRPmin): 13.750 ns



Minimum Active to Precharge Time (tRASmin): 33.000 ns



Supported Module Timing at 1066.1 MHz: 15-15-15-36



Supported Module Timing at 1000.0 MHz: 14-14-14-33



Supported Module Timing at 933.3 MHz: 13-13-13-31



Supported Module Timing at 866.7 MHz: 12-12-12-29



Supported Module Timing at 800.0 MHz: 11-11-11-27



Supported Module Timing at 733.3 MHz: 11-11-11-25



Supported Module Timing at 666.7 MHz: 10-10-10-22



Minimum Active to Active/Refresh Time (tRCmin): 46.750 ns



Minimum Refresh Recovery Time Delay (tRFC1min): 350.000 ns



Minimum Refresh Recovery Time Delay (tRFC2min): 260.000 ns



Minimum Refresh Recovery Time Delay (tRFC4min): 160.000 ns



Minimum Four Activate Window Delay Time (tFAWmin): 15.000 ns

Minimum Active to Active Delay Time -

 Different Bank Group (tRRD_Smin):	3.700 ns
 Minimum Active to Active Delay Time - Same Bank Group (tRRD_Lmin):	5.300 ns
 Minimum CAS to CAS Delay Time - Same Bank Group (tCCD_Lmin):	5.625 ns

[Features]

 Module Temperature Sensor (TSOD):	Supported
 Temperature Sensor Location:	Front Side
 Module Nominal Height:	31 - 32 mm
 Module Maximum Thickness (Front):	1 - 2 mm
 Module Maximum Thickness (Back):	1 - 2 mm
 Number of Registers:	2
 Heat Spreader:	Not Present
 Register Manufacturer:	IDT
 Register Revision:	3.0
 Address Mapping from Register to DRAM:	Mirrored

Bus

PCI Bus #0

Intel Broadwell-EN/EP/EP 4S/EX IIO - DMI2 Port (x4)

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX IIO - DMI2 Port (x4)
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX IIO - DMI2 Port (x4)
 Device Class:	Host-to-PCI Bridge
 Revision ID:	3
 Bus Number:	0
 Device Number:	0
 Function Number:	0

 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F00&SUBSYS_086D15D9&REV_03

[PCI Express]

 Version:	2.0
 Maximum Link Width:	4x
 Current Link Width:	Not negotiated
 Maximum Link Speed:	5.0 Gb/s
 Device/Port Type:	Root Port of PCI Express Root Complex
 Slot Implemented:	No
 Active State Power Management (ASPM) Support:	L1
 Active State Power Management (ASPM) Status:	Disabled

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	INTA#

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D DMI2 - 6F00
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceID	PCI\VEN_8086&DEV_6F00&SUBSYS_086D15D9&REV_03 \3&11583659&0&00

Intel Broadwell-EN/EP/EP 4S/EX IIO - PCI Express Root Port 1 (x8/x4)

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX IIO - PCI Express Root Port 1 (x8/x4)
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX IIO - PCI Express Root Port 1 (x8/x4)

 Device Class:	PCI-to-PCI Bridge
 Revision ID:	3
 Bus Number:	0
 Device Number:	1
 Function Number:	0
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F02&SUBSYS_00000000&REV_03

[PCI Express]

 Version:	3.0
 Maximum Link Width:	4x
 Current Link Width:	4x
 Maximum Link Speed:	8.0 Gb/s
 Current Link Speed:	8.0 Gb/s
 Device/Port Type:	Root Port of PCI Express Root Complex
 Slot Implemented:	Yes
 Hot-Plug:	Not Capable
 Hot-Plug Surprise:	Not Capable
 Active State Power Management (ASPM) Support:	L1
 Active State Power Management (ASPM) Status:	L1 Entry

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	INTA#

[Features]

 Bus Mastering:	Enabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D PCI Express Root Port 1 - 6F02
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6F02&SUBSYS_086D15D9&REV_03 \3&11583659&0&08

PCI Express x4 Bus #1

Samsung Electronics NVMe PCIe SSD Controller

[General Information]

 Device Name:	Samsung Electronics NVMe PCIe SSD Controller
 Original Device Name:	Samsung Electronics NVMe PCIe SSD Controller
 Device Class:	NVMe Controller
 Revision ID:	1
 Bus Number:	1
 Device Number:	0
 Function Number:	0
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_144D&DEV_A802&SUBSYS_A801144D&REV_01

[PCI Express]

 Version:	3.0
 Maximum Link Width:	4x
 Current Link Width:	4x
 Maximum Link Speed:	8.0 Gb/s
 Current Link Speed:	8.0 Gb/s
 Device/Port Type:	PCI Express Endpoint
 Slot Implemented:	No
 Active State Power Management (ASPM) Support:	L1
 Active State Power Management (ASPM) Status:	L1 Entry

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	INTA#
 Memory Base Address 0	FB510000
 I/O Base Address 2	E000

[Features]

 Bus Mastering:	Enabled
 Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable

 **[Driver Information]**

 Driver Manufacturer:	Samsung Electronics Co., Ltd
 Driver Description:	Samsung NVMe Controller
 Driver Provider:	Samsung Electronics Co., Ltd
 Driver Version:	1.4.7.17
 Driver Date:	10-Dec-2015
 DeviceInstanceId	PCI\VEN_144D&DEV_A802&SUBSYS_A801144D&REV_01 \4&24D3305B&0&0008

Intel Broadwell-EN/EP/EP 4S/EX IIO - PCI Express Root Port 2a (x16/x8/x4)

 [General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX IIO - PCI Express Root Port 2a (x16/x8/x4)
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX IIO - PCI Express Root Port 2a (x16/x8/x4)
 Device Class:	PCI-to-PCI Bridge
 Revision ID:	3
 Bus Number:	0
 Device Number:	2
 Function Number:	0
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F04&SUBSYS_00000000&REV_03

 [PCI Express]

 Version:	1.1
 Maximum Link Width:	1x
 Current Link Width:	1x
 Maximum Link Speed:	2.5 Gb/s
 Current Link Speed:	2.5 Gb/s
 Device/Port Type:	Root Port of PCI Express Root Complex
 Slot Implemented:	No
 Active State Power Management (ASPM) Support:	L1
 Active State Power Management (ASPM) Status:	Disabled

 [System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	INTA#

[Features]

 Bus Mastering:	Enabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D PCI Express Root Port 2 - 6F04
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6F04&SUBSYS_086D15D9&REV_03 \3&11583659&0&10

PCI Express x1 Bus #2

Intel Broadwell-DE - QuickData Technology Registers

[General Information]

 Device Name:	Intel Broadwell-DE - QuickData Technology Registers
 Original Device Name:	Intel Broadwell-DE - QuickData Technology Registers
 Device Class:	Unknown Peripheral Device
 Revision ID:	0
 Bus Number:	2
 Device Number:	0
 Function Number:	0
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F50&SUBSYS_086D15D9&REV_00

[PCI Express]

 Version:	1.1
 Current Link Width:	Not negotiated

 Device/Port Type:	PCI Express Endpoint
 Slot Implemented:	No
 Active State Power Management (ASPM) Support:	None
 Active State Power Management (ASPM) Status:	Disabled

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	INTA#
 Memory Base Address 0	FB406000

[Features]

 Bus Mastering:	Enabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D QuickData Technology Registers - 6F50
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6F50&SUBSYS_086D15D9&REV_00 \4&51F18C0&0&0010

Intel Broadwell-DE - QuickData Technology Registers

[General Information]

 Device Name:	Intel Broadwell-DE - QuickData Technology Registers
 Original Device Name:	Intel Broadwell-DE - QuickData Technology Registers
 Device Class:	Unknown Peripheral Device
 Revision ID:	0
 Bus Number:	2
 Device Number:	0
 Function Number:	1
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F51&SUBSYS_086D15D9&REV_00

 [PCI Express]

 Version:	1.1
 Current Link Width:	Not negotiated
 Device/Port Type:	PCI Express Endpoint
 Slot Implemented:	No
 Active State Power Management (ASPM) Support:	None
 Active State Power Management (ASPM) Status:	Disabled

 [System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	INTB#
 Memory Base Address 0	FB404000

 [Features]

 Bus Mastering:	Enabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

 [Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D QuickData Technology Registers - 6F51
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6F51&SUBSYS_086D15D9&REV_00 \4&51F18C0&0&0110

Intel Broadwell-DE - QuickData Technology Registers

 [General Information]

 Device Name:	Intel Broadwell-DE - QuickData Technology Registers
 Original Device Name:	Intel Broadwell-DE - QuickData Technology Registers
 Device Class:	Unknown Peripheral Device
 Revision ID:	0
 Bus Number:	2
 Device Number:	0

 Function Number:	2
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F52&SUBSYS_086D15D9&REV_00

[PCI Express]

 Version:	1.1
 Current Link Width:	Not negotiated
 Device/Port Type:	PCI Express Endpoint
 Slot Implemented:	No
 Active State Power Management (ASPM) Support:	None
 Active State Power Management (ASPM) Status:	Disabled

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	INTC#
 Memory Base Address 0	FB402000

[Features]

 Bus Mastering:	Enabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D QuickData Technology Registers - 6F52
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6F52&SUBSYS_086D15D9&REV_00 \4&51F18C0&0&0210

Intel Broadwell-DE - QuickData Technology Registers

[General Information]

 Device Name:	Intel Broadwell-DE - QuickData Technology Registers
 Original Device Name:	Intel Broadwell-DE - QuickData Technology Registers
 Device Class:	Unknown Peripheral Device

 Revision ID:	0
 Bus Number:	2
 Device Number:	0
 Function Number:	3
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F53&SUBSYS_086D15D9&REV_00

[PCI Express]

 Version:	1.1
 Current Link Width:	Not negotiated
 Device/Port Type:	PCI Express Endpoint
 Slot Implemented:	No
 Active State Power Management (ASPM) Support:	None
 Active State Power Management (ASPM) Status:	Disabled

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	INTD#
 Memory Base Address 0	FB400000

[Features]

 Bus Mastering:	Enabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D QuickData Technology Registers - 6F53
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6F53&SUBSYS_086D15D9&REV_00 \4&51F18C0&0&0310

Intel Broadwell-EN/EP/EP 4S/EX IIO - PCI Express Root Port 2c (x16/x8/x4)

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX IIO - PCI Express Root Port 2c (x16/x8/x4)
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX IIO - PCI Express Root Port 2c (x16/x8/x4)
 Device Class:	PCI-to-PCI Bridge
 Revision ID:	3
 Bus Number:	0
 Device Number:	2
 Function Number:	2
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F06&SUBSYS_00000000&REV_03

[PCI Express]

 Version:	1.1
 Maximum Link Width:	1x
 Current Link Width:	1x
 Maximum Link Speed:	2.5 Gb/s
 Current Link Speed:	2.5 Gb/s
 Device/Port Type:	Root Port of PCI Express Root Complex
 Slot Implemented:	No
 Active State Power Management (ASPM) Support:	L1
 Active State Power Management (ASPM) Status:	L1 Entry

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	INTA#

[Features]

 Bus Mastering:	Enabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D PCI Express Root Port 2 - 6F06
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 Device Instance Id	PCI\VEN_8086&DEV_6F06&SUBSYS_086D15D9&REV_03\3&11583659&0&12

PCI Express x1 Bus #3

Intel Ethernet Connection X552/X557-AT 10GBASE-T (KR/10GBASE-T PHY)

[General Information]

 Device Name:	Intel Ethernet Connection X552/X557-AT 10GBASE-T (KR/10GBASE-T PHY)
 Original Device Name:	Intel Ethernet Connection X552/X557-AT 10GBASE-T (KR/10GBASE-T PHY)
 Device Class:	Ethernet Adapter
 Revision ID:	0
 Bus Number:	3
 Device Number:	0
 Function Number:	0
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_15AD&SUBSYS_15AD15D9&REV_00

[PCI Express]

 Version:	1.1
 Maximum Link Width:	1x
 Current Link Width:	1x
 Maximum Link Speed:	2.5 Gb/s
 Current Link Speed:	2.5 Gb/s
 Device/Port Type:	PCI Express Endpoint
 Slot Implemented:	No
 Active State Power Management (ASPM) Support:	L0s and L1
 Active State Power Management (ASPM) Status:	L1 Entry

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	INTA#
 Memory Base Address 0	FBC00000
 Memory Base Address 4	FBE04000

 [Features]

 Bus Mastering:	Enabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

 [Driver Information]

 Driver Manufacturer:	Intel
 Driver Description:	Intel(R) Ethernet Connection X552/X557-AT 10GBASE-T
 Driver Provider:	Intel
 Driver Version:	3.10.162.0
 Driver Date:	27-Apr-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_15AD&SUBSYS_15AD15D9&REV_00\4&25BF7826&0&0012

Intel Ethernet Connection X552/X557-AT 10GBASE-T (KR/10GBASE-T PHY)

 [General Information]

 Device Name:	Intel Ethernet Connection X552/X557-AT 10GBASE-T (KR/10GBASE-T PHY)
 Original Device Name:	Intel Ethernet Connection X552/X557-AT 10GBASE-T (KR/10GBASE-T PHY)
 Device Class:	Ethernet Adapter
 Revision ID:	0
 Bus Number:	3
 Device Number:	0
 Function Number:	1
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_15AD&SUBSYS_15AD15D9&REV_00

 [PCI Express]

 Version:	1.1
 Maximum Link Width:	1x
 Current Link Width:	1x
 Maximum Link Speed:	2.5 Gb/s
 Current Link Speed:	2.5 Gb/s
 Device/Port Type:	PCI Express Endpoint
 Slot Implemented:	No
 Active State Power Management (ASPM) Support:	L0s and L1

 Active State Power Management (ASPM) L1 Entry
Status:

[System Resources]

 Interrupt Line: N/A
 Interrupt Pin: INTB#
 Memory Base Address 0: FBA00000
 Memory Base Address 4: FBE00000

[Features]

 Bus Mastering: Enabled
 Running At 66 MHz: Not Capable
 Fast Back-to-Back Transactions: Not Capable

[Driver Information]

 Driver Manufacturer: Intel
 Driver Description: Intel(R) Ethernet Connection X552/X557-AT 10GBASE-T
 Driver Provider: Intel
 Driver Version: 3.10.162.0
 Driver Date: 27-Apr-2015
 DeviceInstanceId: PCI\VEN_8086&DEV_15AD&SUBSYS_15AD15D9&REV_00
\4&25BF7826&0&0112

Intel Broadwell-EN/EP/EP 4S/EX IIO - PCI Express Root Port 3a (IOU1)

[General Information]

 Device Name: Intel Broadwell-EN/EP/EP 4S/EX IIO - PCI Express Root Port 3a (IOU1)
 Original Device Name: Intel Broadwell-EN/EP/EP 4S/EX IIO - PCI Express Root Port 3a (IOU1)
 Device Class: PCI-to-PCI Bridge
 Revision ID: 3
 Bus Number: 0
 Device Number: 3
 Function Number: 0
 PCI Latency Timer: 0
 Hardware ID: PCI\VEN_8086&DEV_6F08&SUBSYS_00000000&REV_03

[PCI Express]

 Version:	3.0
 Maximum Link Width:	16x
 Current Link Width:	4x
 Maximum Link Speed:	8.0 Gb/s
 Current Link Speed:	8.0 Gb/s
 Device/Port Type:	Root Port of PCI Express Root Complex
 Slot Implemented:	Yes
 Hot-Plug:	Not Capable
 Hot-Plug Surprise:	Not Capable
 Slot Power Limit:	26.000 W
 Active State Power Management (ASPM) Support:	L1
 Active State Power Management (ASPM) Status:	L1 Entry

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	INTA#

[Features]

 Bus Mastering:	Enabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D PCI Express Root Port 3 - 6F08
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6F08&SUBSYS_086D15D9&REV_03 \3&11583659&0&18

PCI Express x16 Bus #4

Samsung Electronics NVMe PCIe SSD Controller

 [General Information]

 Device Name:	Samsung Electronics NVMe PCIe SSD Controller
 Original Device Name:	Samsung Electronics NVMe PCIe SSD Controller
 Device Class:	NVMe Controller
 Revision ID:	1
 Bus Number:	4
 Device Number:	0
 Function Number:	0
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_144D&DEV_A802&SUBSYS_A801144D&REV_01

 [PCI Express]

 Version:	3.0
 Maximum Link Width:	4x
 Current Link Width:	4x
 Maximum Link Speed:	8.0 Gb/s
 Current Link Speed:	8.0 Gb/s
 Device/Port Type:	PCI Express Endpoint
 Slot Implemented:	No
 Active State Power Management (ASPM) Support:	L1
 Active State Power Management (ASPM) Status:	L1 Entry

 [System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	INTA#
 Memory Base Address 0	FB210000
 I/O Base Address 2	D000

 [Features]

 Bus Mastering:	Enabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

 [Driver Information]

 Driver Manufacturer:	Samsung Electronics Co., Ltd
 Driver Description:	Samsung NVMe Controller
 Driver Provider:	Samsung Electronics Co., Ltd
 Driver Version:	1.4.7.17
 Driver Date:	10-Dec-2015

 DeviceInstanceId

 PCI\VEN_144D&DEV_A802&SUBSYS_A801144D&REV_01
 \4&5B74678&0&0018

Intel Broadwell-EN/EP/EP 4S/EX IIO - VT, Address Map, System Management, Miscellaneous

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX IIO - VT, Address Map, System Management, Miscellaneous
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX IIO - VT, Address Map, System Management, Miscellaneous
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	0
 Device Number:	5
 Function Number:	0
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F28&SUBSYS_086D15D9&REV_03

[PCI Express]

 Version:	1.1
 Current Link Width:	Not negotiated
 Device/Port Type:	Root Complex Integrated Endpoint
 Slot Implemented:	No
 Active State Power Management (ASPM) Support:	None
 Active State Power Management (ASPM) Status:	Disabled

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
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 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Address Map/VTd_Misc/System Management - 6F28
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6F28&SUBSYS_086D15D9&REV_03\3&11583659&0&28

Intel Broadwell-EN/EP/EP 4S/EX IIO - Hot Plug

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX IIO - Hot Plug
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX IIO - Hot Plug
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	0
 Device Number:	5
 Function Number:	1
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F29&SUBSYS_086D15D9&REV_03

[PCI Express]

 Version:	1.1
 Current Link Width:	Not negotiated
 Device/Port Type:	Root Complex Integrated Endpoint
 Slot Implemented:	No
 Active State Power Management (ASPM) Support:	None
 Active State Power Management (ASPM) Status:	Disabled

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

 [Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D IIO Hot Plug - 6F29
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6F29&SUBSYS_086D15D9&REV_03 \3&11583659&0&29

Intel Broadwell-EN/EP/EP 4S/EX IIO - RAS, Control Status and Global Errors

 [General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX IIO - RAS, Control Status and Global Errors
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX IIO - RAS, Control Status and Global Errors
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	0
 Device Number:	5
 Function Number:	2
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F2A&SUBSYS_086D15D9&REV_03

 [PCI Express]

 Version:	1.1
 Current Link Width:	Not negotiated
 Device/Port Type:	Root Complex Integrated Endpoint
 Slot Implemented:	No
 Active State Power Management (ASPM) Support:	None
 Active State Power Management (ASPM) Status:	Disabled

 [System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

 [Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D IIO RAS/Control Status/Global Errors - 6F2A
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6F2A&SUBSYS_086D15D9&REV_03\3&11583659&0&2A

Intel Broadwell-EN/EP/EP 4S/EX IIO - I/OxAPIC

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX IIO - I/OxAPIC
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX IIO - I/OxAPIC
 Device Class:	I/O(X) APIC
 Revision ID:	3
 Bus Number:	0
 Device Number:	5
 Function Number:	4
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F2C&SUBSYS_086D15D9&REV_03

[PCI Express]

 Version:	1.1
 Current Link Width:	Not negotiated
 Device/Port Type:	Root Complex Integrated Endpoint
 Slot Implemented:	No
 Active State Power Management (ASPM) Support:	None
 Active State Power Management (ASPM) Status:	Disabled

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

 Memory Base Address 0 FB618000

[Features]

 Bus Mastering: Enabled

 Running At 66 MHz: Not Capable

 Fast Back-to-Back Transactions: Not Capable

[Driver Information]

 Driver Manufacturer: INTEL

 Driver Description: Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D I/O APIC - 6F2C

 Driver Provider: INTEL

 Driver Version: 10.1.2.10

 Driver Date: 06-Aug-2015

 DeviceInstanceId: PCI\VEN_8086&DEV_6F2C&SUBSYS_086D15D9&REV_03\3&11583659&0&2C

Intel Lynx Point PCH - USB 3.0 xHCI Host Controller [C2]

[General Information]

 **Device Name:** Intel Lynx Point PCH - USB 3.0 xHCI Host Controller [C2]

 **Original Device Name:** Intel Lynx Point PCH - USB 3.0 xHCI Host Controller [C2]

 **Device Class:** USB xHCI Controller

 Revision ID: 5

 Bus Number: 0

 Device Number: 20

 Function Number: 0

 PCI Latency Timer: 0

 Hardware ID: PCI\VEN_8086&DEV_8C31&SUBSYS_086D15D9&REV_05

[System Resources]

 Interrupt Line: N/A

 Interrupt Pin: INTD#

 Memory Base Address 0 FB600000

[Features]

 Bus Mastering: Enabled

 Running At 66 MHz: Not Capable

Fast Back-to-Back Transactions: Capable



 USB Version Supported: 3.0

[Driver Information]

 Driver Manufacturer: Generic USB xHCI Host Controller
 Driver Description: USB xHCI Compliant Host Controller
 Driver Provider: Microsoft
 Driver Version: 10.0.10586.0
 Driver Date: 28-Oct-2015
 DeviceInstanceId: PCI\VEN_8086&DEV_8C31&SUBSYS_086D15D9&REV_05
\3&11583659&0&A0

USB Root Hub

[Port1] : USB Input Device

[Device Information]

 Device Manufacturer: CP1000PFCLCD
 Product Name: CRDA103.981
 Serial Number: CPS
 USB Version Supported: 2.00
 USB Device Speed: USB 1.1 Full-speed
 Driver Description: USB Input Device
 Hardware ID: USB\VID_0764&PID_0501

[Driver Information]

 Driver Manufacturer: (Standard system devices)
 Driver Description: USB Input Device
 Driver Provider: Microsoft
 Driver Version: 10.0.10586.0
 Driver Date: 20-Jun-2006
 DeviceInstanceId: USB\VID_0764&PID_0501\CPS

[Port2] : No Device Connected

[Port3] : No Device Connected

[Port4] : USB Hub

[Port1] : USB Composite Device

[Device Information]

 Device Manufacturer:	N/A
 Product Name:	N/A
 Serial Number:	N/A
 USB Version Supported:	1.10
 USB Device Speed:	USB 1.1 Low-speed
 Driver Description:	USB Composite Device
 Hardware ID:	USB\VID_0557&PID_2419

[Driver Information]

 Driver Manufacturer:	(Standard USB Host Controller)
 Driver Description:	USB Composite Device
 Driver Provider:	Microsoft
 Driver Version:	10.0.10586.0
 Driver Date:	20-Jun-2006
 DeviceInstanceId	USB\VID_0557&PID_2419\6&2A7C0E1D&0&1

[Port2] : No Device Connected

[Port3] : No Device Connected

[Port4] : No Device Connected

[Port5] : No Device Connected

[Port6] : No Device Connected

[Port7] : No Device Connected

[Port8] : No Device Connected

[Port9] : Device General Failure

[Port10] : Device General Failure

[Port11] : Device General Failure

[Port12] : Device General Failure

[Port13] : Device General Failure

[Port14] : Device General Failure

[Port15] : Device General Failure

[Port16] : No Device Connected

[Port17] : No Device Connected

[Port18] : No Device Connected

[Port19] : No Device Connected

[Port20] : No Device Connected

[Port21] : No Device Connected

Intel Lynx Point PCH - Host Embedded Controller Interface 1 (HECI1) [C1/C2]

[General Information]

 Device Name:	Intel Lynx Point PCH - Host Embedded Controller Interface 1 (HECI1) [C1/C2]
 Original Device Name:	Intel Lynx Point PCH - Host Embedded Controller Interface 1 (HECI1) [C1/C2]
 Device Class:	Unknown Communication Device
 Revision ID:	4
 Bus Number:	0
 Device Number:	22
 Function Number:	0
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_8C3A&SUBSYS_086D15D9&REV_04

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	INTA#
 Memory Base Address 0	FB617000

[Features]

 Bus Mastering:	Enabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable
 DeviceInstanceId	PCI\VEN_8086&DEV_8C3A&SUBSYS_086D15D9&REV_04 \3&11583659&0&B0

Intel Lynx Point PCH - Host Embedded Controller Interface 2 (HECI2) [C1/C2]

[General Information]

 Device Name:	Intel Lynx Point PCH - Host Embedded Controller Interface 2 (HECI2) [C1/C2]
 Original Device Name:	Intel Lynx Point PCH - Host Embedded Controller Interface 2 (HECI2) [C1/C2]
Device Class:	Unknown Communication Device



Revision ID:	4
Bus Number:	0
Device Number:	22
Function Number:	1
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_8086&DEV_8C3B&SUBSYS_086D15D9&REV_04

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	INTB#
Memory Base Address 0	FB616000

[Features]

Bus Mastering:	Enabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable
DeviceInstanceId	PCI\VEN_8086&DEV_8C3B&SUBSYS_086D15D9&REV_04 \3&11583659&0&B1

Intel Lynx Point PCH - USB 2.0 EHCI Host Controller #2 [C2]

[General Information]

Device Name:	Intel Lynx Point PCH - USB 2.0 EHCI Host Controller #2 [C2]
Original Device Name:	Intel Lynx Point PCH - USB 2.0 EHCI Host Controller #2 [C2]
Device Class:	USB EHCI Controller
Revision ID:	5
Bus Number:	0
Device Number:	26
Function Number:	0
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_8086&DEV_8C2D&SUBSYS_086D15D9&REV_05

[System Resources]

Interrupt Line:	IRQ18
Interrupt Pin:	INTC#
Memory Base Address 0	FB614000

 [Features]

 Bus Mastering:	Enabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Capable
 USB Version Supported:	2.0

 [Driver Information]

 Driver Manufacturer:	Intel
 Driver Description:	Intel(R) 8 Series/C220 Series USB EHCI #2 - 8C2D
 Driver Provider:	Microsoft
 Driver Version:	10.0.10586.0
 Driver Date:	20-Jun-2006
 DeviceInstanceId	PCI\VEN_8086&DEV_8C2D&SUBSYS_086D15D9&REV_05 \3&11583659&0&D0

USB Root Hub

[Port1] : USB Hub

[Port1] : No Device Connected

[Port2] : No Device Connected

[Port3] : No Device Connected

[Port4] : No Device Connected

[Port2] : No Device Connected

Intel Lynx Point PCH - PCI Express Root Port 1 [C2]

[General Information]

 Device Name:	Intel Lynx Point PCH - PCI Express Root Port 1 [C2]
 Original Device Name:	Intel Lynx Point PCH - PCI Express Root Port 1 [C2]
 Device Class:	PCI-to-PCI Bridge
 Revision ID:	D5
 Bus Number:	0
 Device Number:	28
 Function Number:	0
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_8C10&SUBSYS_00000000&REV_D5

[PCI Express]

 Version:	2.0
 Maximum Link Width:	4x
 Current Link Width:	4x
 Maximum Link Speed:	5.0 Gb/s
 Current Link Speed:	5.0 Gb/s
 Device/Port Type:	Root Port of PCI Express Root Complex
 Slot Implemented:	Yes
 Hot-Plug:	Not Capable
 Hot-Plug Surprise:	Not Capable
 Active State Power Management (ASPM) Support:	L0s and L1
 Active State Power Management (ASPM) Status:	L1 Entry

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	INTA#

 [Features]

 Bus Mastering:	Enabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

 [Driver Information]

 Driver Manufacturer:	(Standard system devices)
 Driver Description:	PCI-to-PCI Bridge
 Driver Provider:	Microsoft
 Driver Version:	10.0.10586.0
 Driver Date:	20-Jun-2006
 DeviceInstanceId	PCI\VEN_8086&DEV_8C10&SUBSYS_086D15D9&REV_D5 \3&11583659&0&E0

PCI Express x4 Bus #5

Intel I350 Gigabit 1000BaseT Network Ethernet Adapter (Copper)

 [General Information]

 Device Name:	Intel I350 Gigabit 1000BaseT Network Ethernet Adapter (Copper)
 Original Device Name:	Intel I350 Gigabit 1000BaseT Network Ethernet Adapter (Copper)
 Device Class:	Ethernet Adapter
 Revision ID:	1
 Bus Number:	5
 Device Number:	0
 Function Number:	0
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_1521&SUBSYS_152115D9&REV_01

 [PCI Express]

 Version:	2.0
 Maximum Link Width:	4x
 Current Link Width:	4x
 Maximum Link Speed:	5.0 Gb/s

 Current Link Speed:	5.0 Gb/s
 Device/Port Type:	PCI Express Endpoint
 Slot Implemented:	No
 Active State Power Management (ASPM) Support:	L0s and L1
 Active State Power Management (ASPM) Status:	L1 Entry

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	INTA#
 Memory Base Address 0	FB120000
 I/O Base Address 2	0
 Memory Base Address 3	FB144000

[Features]

 Bus Mastering:	Enabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	Intel Corporation
 Driver Description:	Intel(R) I350 Gigabit Network Connection
 Driver Provider:	Microsoft
 Driver Version:	12.12.50.6
 Driver Date:	19-Mar-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_1521&SUBSYS_152115D9&REV_01 \4&2F633FA9&0&00E0

Intel I350 Gigabit 1000BaseT Network Ethernet Adapter (Copper)

[General Information]

 Device Name:	Intel I350 Gigabit 1000BaseT Network Ethernet Adapter (Copper)
 Original Device Name:	Intel I350 Gigabit 1000BaseT Network Ethernet Adapter (Copper)
 Device Class:	Ethernet Adapter
 Revision ID:	1
 Bus Number:	5
 Device Number:	0
 Function Number:	1

 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_1521&SUBSYS_152115D9&REV_01

[PCI Express]

 Version:	2.0
 Maximum Link Width:	4x
 Current Link Width:	4x
 Maximum Link Speed:	5.0 Gb/s
 Current Link Speed:	5.0 Gb/s
 Device/Port Type:	PCI Express Endpoint
 Slot Implemented:	No
 Active State Power Management (ASPM) Support:	L0s and L1
 Active State Power Management (ASPM) Status:	L1 Entry

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	INTB#
 Memory Base Address 0	FB100000
 I/O Base Address 2	0
 Memory Base Address 3	FB140000

[Features]

 Bus Mastering:	Enabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	Intel Corporation
 Driver Description:	Intel(R) I350 Gigabit Network Connection
 Driver Provider:	Microsoft
 Driver Version:	12.12.50.6
 Driver Date:	19-Mar-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_1521&SUBSYS_152115D9&REV_01 \4&2F633FA9&0&01E0

Intel Lynx Point PCH - PCI Express Root Port 5 [C2]

[General Information]

 Device Name:	Intel Lynx Point PCH - PCI Express Root Port 5 [C2]
 Original Device Name:	Intel Lynx Point PCH - PCI Express Root Port 5 [C2]
 Device Class:	PCI-to-PCI Bridge
 Revision ID:	D5
 Bus Number:	0
 Device Number:	28
 Function Number:	4
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_8C18&SUBSYS_00000000&REV_D5

[PCI Express]

 Version:	2.0
 Maximum Link Width:	1x
 Current Link Width:	1x
 Maximum Link Speed:	5.0 Gb/s
 Current Link Speed:	2.5 Gb/s
 Device/Port Type:	Root Port of PCI Express Root Complex
 Slot Implemented:	Yes
 Hot-Plug:	Not Capable
 Hot-Plug Surprise:	Not Capable
 Slot Power Limit:	10.000 W
 Active State Power Management (ASPM) Support:	L0s and L1
 Active State Power Management (ASPM) Status:	Disabled

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	INTA#

[Features]

 Bus Mastering:	Enabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	(Standard system devices)
 Driver Description:	PCI-to-PCI Bridge
 Driver Provider:	Microsoft
 Driver Version:	10.0.10586.0

 Driver Date:	20-Jun-2006
 Device Instance Id	PCI\VEN_8086&DEV_8C18&SUBSYS_086D15D9&REV_D5 \3&11583659&0&E4

PCI Express x1 Bus #6

ASPEED Technology AST1150 PCI-to-PCI Bridge

[General Information]

 Device Name:	ASPEED Technology AST1150 PCI-to-PCI Bridge
 Original Device Name:	ASPEED Technology AST1150 PCI-to-PCI Bridge
 Device Class:	PCI-to-PCI Bridge
 Revision ID:	3
 Bus Number:	6
 Device Number:	0
 Function Number:	0
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_1A03&DEV_1150&SUBSYS_00000000&REV_03

[PCI Express]

 Version:	1.1
 Maximum Link Width:	1x
 Current Link Width:	1x
 Maximum Link Speed:	2.5 Gb/s
 Current Link Speed:	2.5 Gb/s
 Device/Port Type:	PCI Express-to-PCI/PCI-X Bridge
 Slot Implemented:	No
 Active State Power Management (ASPM) Support:	L0s and L1
 Active State Power Management (ASPM) Status:	Disabled

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

Bus Mastering:	Enabled
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Running At 66 MHz:

Not Capable



Fast Back-to-Back Transactions:

Not Capable

**[Driver Information]**

Driver Manufacturer:

(Standard system devices)



Driver Description:

PCI-to-PCI Bridge



Driver Provider:

Microsoft



Driver Version:

10.0.10586.0



Driver Date:

20-Jun-2006



DeviceInstanceId

PCI\VEN_1A03&DEV_1150&SUBSYS_086D15D9&REV_03
\4&29A960D&0&00E4

PCI Express x1 Bus #7

ASPEED Technology AST2400 SOC

**[General Information]****Device Name:****ASPEED Technology AST2400 SOC****Original Device Name:****ASPEED Technology AST2400 SOC****Device Class:****VGA Compatible Adapter**

Revision ID:

30



Bus Number:

7



Device Number:

0



Function Number:

0



PCI Latency Timer:

0



Hardware ID:

PCI\VEN_1A03&DEV_2000&SUBSYS_086D15D9&REV_30

**[System Resources]**

Interrupt Line:

IRQ18



Interrupt Pin:

INTA#



Memory Base Address 0

FA000000



Memory Base Address 1

FB000000



I/O Base Address 2

B000

**[Features]**

Bus Mastering:

Enabled

 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	ASPEED
 Driver Description:	ASPEED Graphics Family(WDDM)
 Driver Provider:	ASPEED
 Driver Version:	9.0.10.102
 Driver Date:	26-Jul-2015
 DeviceInstanceId	PCI\VEN_1A03&DEV_2000&SUBSYS_086D15D9&REV_30 \5&9FF73FF&0&0000E4

Intel Lynx Point PCH - USB 2.0 EHCI Host Controller #1 [C2]

[General Information]

 Device Name:	Intel Lynx Point PCH - USB 2.0 EHCI Host Controller #1 [C2]
 Original Device Name:	Intel Lynx Point PCH - USB 2.0 EHCI Host Controller #1 [C2]
 Device Class:	USB EHCI Controller
 Revision ID:	5
 Bus Number:	0
 Device Number:	29
 Function Number:	0
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_8C26&SUBSYS_086D15D9&REV_05

[System Resources]

 Interrupt Line:	IRQ18
 Interrupt Pin:	INTC#
 Memory Base Address 0	FB613000

[Features]

 Bus Mastering:	Enabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Capable
 USB Version Supported:	2.0

[Driver Information]

 Driver Manufacturer:	Intel
 Driver Description:	Intel(R) 8 Series/C220 Series USB EHCI #1 - 8C26
 Driver Provider:	Microsoft
 Driver Version:	10.0.10586.0
 Driver Date:	20-Jun-2006
 DeviceInstanceId	PCI\VEN_8086&DEV_8C26&SUBSYS_086D15D9&REV_05 \3&11583659&0&E8

USB Root Hub

[Port1] : USB Hub

[Port1] : No Device Connected

[Port2] : No Device Connected

[Port3] : USB Hub

[Port1] : USB Mass Storage Device

[Device Information]

 Device Manufacturer:	SanDisk
 Product Name:	Ultra Fit
 Serial Number:	4C531146331113110104
 USB Version Supported:	3.00 (Connected to a USB 2.00 Port)
 USB Device Speed:	USB 2.0 High-speed

 Driver Description: USB Mass Storage Device
 Hardware ID: USB\VID_0781&PID_5583

[Driver Information]

 Driver Manufacturer: Compatible USB storage device
 Driver Description: USB Mass Storage Device
 Driver Provider: Microsoft
 Driver Version: 10.0.10586.0
 Driver Date: 20-Jun-2006
 DeviceInstanceId: USB\VID_0781&PID_5583\4C531146331113110104

[Port2] : No Device Connected

[Port3] : No Device Connected

[Port4] : No Device Connected

[Port4] : No Device Connected

[Port2] : No Device Connected

Intel C224 Chipset - LPC Interface Controller [C2]

[General Information]

 Device Name: Intel C224 Chipset - LPC Interface Controller [C2]

 Original Device Name:	Intel C224 Chipset - LPC Interface Controller [C2]
 Device Class:	PCI-to-ISA Bridge
 Revision ID:	5
 Bus Number:	0
 Device Number:	31
 Function Number:	0
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_8C54&SUBSYS_086D15D9&REV_05

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Enabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	(Standard system devices)
 Driver Description:	PCI standard ISA bridge
 Driver Provider:	Microsoft
 Driver Version:	10.0.10586.0
 Driver Date:	20-Jun-2006
 DeviceInstanceId	PCI\VEN_8086&DEV_8C54&SUBSYS_086D15D9&REV_05 \3&11583659&0&F8

Intel Lynx Point PCH - SATA AHCI Controller (Ports 0-5) [C2]

[General Information]

 Device Name:	Intel Lynx Point PCH - SATA AHCI Controller (Ports 0-5) [C2]
 Original Device Name:	Intel Lynx Point PCH - SATA AHCI Controller (Ports 0-5) [C2]
 Device Class:	SATA AHCI Controller
 Revision ID:	5
 Bus Number:	0
 Device Number:	31
 Function Number:	2
PCI Latency Timer:	0



Hardware ID:

PCI\VEN_8086&DEV_8C02&SUBSYS_086D15D9&REV_05

**[System Resources]**

Interrupt Line:

N/A



Interrupt Pin:

INTA#



I/O Base Address 0

0



I/O Base Address 1

0



I/O Base Address 2

0



I/O Base Address 3

0



I/O Base Address 4

0



Memory Base Address 5

FB612000

**[Features]**

Bus Mastering:

Enabled



Running At 66 MHz:

Capable



Fast Back-to-Back Transactions:

Capable

**[SATA Host Controller]**

Interface Speed Supported:

Gen3 6.0 Gbps



Number Of Ports:

6



External SATA Support:

Not Capable



Aggressive Link Power Management:

Capable



Staggered Spin-up:

Not Capable



Mechanical Presence Switch:

Not Capable



Command Queue Acceleration:

Capable



64-bit Addressing:

Capable



AHCI Status:

Enabled



AHCI Version:

1.30



Ports Implemented:

0, 1, 2, 3, 4, 5

**[SATA Port#0]**

Port Status:

No Device Present



External SATA Port:

Not Capable



Hot Plug:

Capable

**[SATA Port#1]**

Port Status:

No Device Present



External SATA Port:

Not Capable



Hot Plug:

Capable

 [SATA Port#2]

 Port Status:	No Device Present
 External SATA Port:	Not Capable
 Hot Plug:	Capable

 [SATA Port#3]

 Port Status:	No Device Present
 External SATA Port:	Not Capable
 Hot Plug:	Capable

 [SATA Port#4]

 Port Status:	Device Present, Phy communication established
 Current Interface Speed:	Gen3 6.0 Gbps
 External SATA Port:	Not Capable
 Hot Plug:	Capable
 Device Type:	SATA

 [SATA Port#5]

 Port Status:	No Device Present
 External SATA Port:	Not Capable
 Hot Plug:	Capable

 [Driver Information]

 Driver Manufacturer:	Standard SATA AHCI Controller
 Driver Description:	Standard SATA AHCI Controller
 Driver Provider:	Microsoft
 Driver Version:	10.0.10586.0
 Driver Date:	20-Jun-2006
 DeviceInstanceId	PCI\VEN_8086&DEV_8C02&SUBSYS_086D15D9&REV_05 \3&11583659&0&FA

Intel Lynx Point PCH - SMBus Controller [C2]

 [General Information]

 Device Name:	Intel Lynx Point PCH - SMBus Controller [C2]
 Original Device Name:	Intel Lynx Point PCH - SMBus Controller [C2]
 Device Class:	SMBus (System Management Bus)
 Revision ID:	5
Bus Number:	0



Device Number:	31
Function Number:	3
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_8086&DEV_8C22&SUBSYS_086D15D9&REV_05

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	INTC#
Memory Base Address 0	FB611000
I/O Base Address 4	F000

[Features]

Bus Mastering:	Disabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Capable

[Driver Information]

Driver Manufacturer:	INTEL
Driver Description:	Intel(R) 8 Series/C220 Series SMBus Controller - 8C22
Driver Provider:	INTEL
Driver Version:	10.1.1.13
Driver Date:	27-Oct-2015
DeviceInstanceId	PCI\VEN_8086&DEV_8C22&SUBSYS_086D15D9&REV_05 \3&11583659&0&FB

Intel Lynx Point PCH - Thermal Controller [C2]

 [General Information]

Device Name:	Intel Lynx Point PCH - Thermal Controller [C2]
Original Device Name:	Intel Lynx Point PCH - Thermal Controller [C2]
Device Class:	Unknown Data Acquisition/Signal Processing Controller
Revision ID:	5
Bus Number:	0
Device Number:	31
Function Number:	6
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_8086&DEV_8C24&SUBSYS_086D15D9&REV_05

 [System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	INTC#
 Memory Base Address 0	FB610000

 [Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

 [Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) 8 Series/C220 Series Thermal - 8C24
 Driver Provider:	INTEL
 Driver Version:	10.1.1.13
 Driver Date:	27-Oct-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_8C24&SUBSYS_086D15D9&REV_05 \3&11583659&0&FE

PCI Bus #255

Intel Broadwell-EN/EP/EP 4S/EX - R3 Intel QPI Link 0 & 1 Performance Monitoring

 [General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - R3 Intel QPI Link 0 & 1 Performance Monitoring
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - R3 Intel QPI Link 0 & 1 Performance Monitoring
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	11
 Function Number:	0
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F81&SUBSYS_6F818086&REV_03

 [System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

 [Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

 [Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D R3 QPI Link 0/1 - 6F81
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6F81&SUBSYS_6F818086&REV_03 \3&103A9D54&0&58

Intel Broadwell-EN/EP/EP 4S/EX - R3 Intel QPI Link 0 & 1 Performance Monitoring

 [General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - R3 Intel QPI Link 0 & 1 Performance Monitoring
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - R3 Intel QPI Link 0 & 1 Performance Monitoring
 Device Class:	Performance counters
 Revision ID:	3
 Bus Number:	255
 Device Number:	11
 Function Number:	1
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F36&SUBSYS_6F368086&REV_03

 [System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

 [Features]

 Bus Mastering:	Disabled
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 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D R3 QPI Link 0/1 - 6F36
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6F36&SUBSYS_6F368086&REV_03 \3&103A9D54&0&59

Intel Broadwell-EN/EP/EP 4S/EX - R3 Intel QPI Link 0 & 1 Performance Monitoring

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - R3 Intel QPI Link 0 & 1 Performance Monitoring
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - R3 Intel QPI Link 0 & 1 Performance Monitoring
 Device Class:	Performance counters
 Revision ID:	3
 Bus Number:	255
 Device Number:	11
 Function Number:	2
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F37&SUBSYS_6F378086&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3

 Driver Description:	v4/Xeon(R) D R3 QPI Link 0/1 - 6F37
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6F37&SUBSYS_6F378086&REV_03 \3&103A9D54&0&5A

Intel Broadwell-EN/EP/EP 4S/EX - R3 QPI Ring Interface Debug

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - R3 QPI Ring Interface Debug
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - R3 QPI Ring Interface Debug
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	11
 Function Number:	3
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F76&SUBSYS_00000000&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D R3 QPI Link Debug - 6F76
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6F76&SUBSYS_00000000&REV_03 \3&103A9D54&0&5B

Intel Broadwell-EN/EP/EP 4S/EX CBo - Unicast Registers

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX CBo - Unicast Registers
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX CBo - Unicast Registers
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	12
 Function Number:	0
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6FE0&SUBSYS_6FE08086&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Caching Agent - 6FE0
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6FE0&SUBSYS_6FE08086&REV_03 \3&103A9D54&0&60

Intel Broadwell-EN/EP/EP 4S/EX CBo - Unicast Registers

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX CBo - Unicast Registers
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX CBo - Unicast

 Device Class:	Registers
 Revision ID:	3
 Bus Number:	255
 Device Number:	12
 Function Number:	1
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6FE1&SUBSYS_6FE18086&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Caching Agent - 6FE1
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 Device Instance Id	PCI\VEN_8086&DEV_6FE1&SUBSYS_6FE18086&REV_03 \3&103A9D54&0&61

Intel Broadwell-EN/EP/EP 4S/EX CBo - Unicast Registers

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX CBo - Unicast Registers
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX CBo - Unicast Registers
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	12
 Function Number:	2
 PCI Latency Timer:	0

 Hardware ID: PCI\VEN_8086&DEV_6FE2&SUBSYS_6FE28086&REV_03

[System Resources]

 Interrupt Line: N/A

 Interrupt Pin: N/A

[Features]

 Bus Mastering: Disabled

 Running At 66 MHz: Not Capable

 Fast Back-to-Back Transactions: Not Capable

[Driver Information]

 Driver Manufacturer: INTEL

 Driver Description: Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Caching Agent - 6FE2

 Driver Provider: INTEL

 Driver Version: 10.1.2.10

 Driver Date: 06-Aug-2015

 DeviceInstanceId: PCI\VEN_8086&DEV_6FE2&SUBSYS_6FE28086&REV_03
\3&103A9D54&0&62

Intel Broadwell-EN/EP/EP 4S/EX CBo - Unicast Registers

[General Information]

 Device Name: Intel Broadwell-EN/EP/EP 4S/EX CBo - Unicast Registers

 Original Device Name: Intel Broadwell-EN/EP/EP 4S/EX CBo - Unicast Registers

 Device Class: Unknown Peripheral Device

 Revision ID: 3

 Bus Number: 255

 Device Number: 12

 Function Number: 3

 PCI Latency Timer: 0

 Hardware ID: PCI\VEN_8086&DEV_6FE3&SUBSYS_6FE38086&REV_03

[System Resources]

 Interrupt Line: N/A

 Interrupt Pin: N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Caching Agent - 6FE3
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6FE3&SUBSYS_6FE38086&REV_03 \3&103A9D54&0&63

Intel Broadwell-EN/EP/EP 4S/EX CBo - Unicast Registers

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX CBo - Unicast Registers
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX CBo - Unicast Registers
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	12
 Function Number:	4
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6FE4&SUBSYS_6FE48086&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3

 Driver Description:	v4/Xeon(R) D Caching Agent - 6FE4
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6FE4&SUBSYS_6FE48086&REV_03 \3&103A9D54&0&64

Intel Broadwell-EN/EP/EP 4S/EX CBo - Unicast Registers

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX CBo - Unicast Registers
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX CBo - Unicast Registers
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	12
 Function Number:	5
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6FE5&SUBSYS_6FE58086&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Caching Agent - 6FE5
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6FE5&SUBSYS_6FE58086&REV_03 \3&103A9D54&0&65

Intel Broadwell-EN/EP/EP 4S/EX CBo - Unicast Registers

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX CBo - Unicast Registers
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX CBo - Unicast Registers
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	12
 Function Number:	6
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6FE6&SUBSYS_6FE68086&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Caching Agent - 6FE6
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6FE6&SUBSYS_6FE68086&REV_03 \3&103A9D54&0&66

Intel Broadwell-EN/EP/EP 4S/EX CBo - Unicast Registers

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX CBo - Unicast Registers
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX CBo - Unicast

 Device Class: Revision ID: Bus Number: Device Number: Function Number: PCI Latency Timer: Hardware ID:**Registers****Unknown Peripheral Device**

3

255

12

7

0

PCI\VEN_8086&DEV_6FE7&SUBSYS_6FE78086&REV_03

 [System Resources] Interrupt Line:

N/A

 Interrupt Pin:

N/A

 [Features] Bus Mastering:

Disabled

 Running At 66 MHz:

Not Capable

 Fast Back-to-Back Transactions:

Not Capable

 [Driver Information] Driver Manufacturer:

INTEL

 Driver Description:

Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Caching Agent - 6FE7

 Driver Provider:

INTEL

 Driver Version:

10.1.2.10

 Driver Date:

06-Aug-2015

 DeviceInstanceIdPCI\VEN_8086&DEV_6FE7&SUBSYS_6FE78086&REV_03
\3&103A9D54&0&67

Intel Broadwell-EN/EP/EP 4S/EX - Caching Agent (Cbo) - Buffered Ring Agents

 [General Information] **Device Name:****Intel Broadwell-EN/EP/EP 4S/EX - Caching Agent (Cbo) - Buffered Ring Agents** **Original Device Name:****Intel Broadwell-EN/EP/EP 4S/EX - Caching Agent (Cbo) - Buffered Ring Agents** **Device Class:****Unknown Peripheral Device** Revision ID:

3

 Bus Number:

255

 Device Number:

15

 Function Number:

0

 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6FF8&SUBSYS_6FF88086&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Caching Agent - 6FF8
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6FF8&SUBSYS_6FF88086&REV_03 \3&103A9D54&0&78

Intel Broadwell-EN/EP/EP 4S/EX - Cbo System Address Decoder and Broadcast Registers

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Cbo System Address Decoder and Broadcast Registers
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Cbo System Address Decoder and Broadcast Registers
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	15
 Function Number:	4
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6FFC&SUBSYS_6FE08086&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

 [Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

 [Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Caching Agent - 6FFC
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6FFC&SUBSYS_6FE08086&REV_03 \3&103A9D54&0&7C

Intel Broadwell-EN/EP/EP 4S/EX - Cbo System Address Decoder and Broadcast Registers

 [General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Cbo System Address Decoder and Broadcast Registers
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Cbo System Address Decoder and Broadcast Registers
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	15
 Function Number:	5
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6FFD&SUBSYS_6FE08086&REV_03

 [System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

 [Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

 [Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Caching Agent - 6FFD
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6FFD&SUBSYS_6FE08086&REV_03 \3&103A9D54&0&7D

Intel Broadwell-EN/EP/EP 4S/EX - Cbo System Address Decoder and Broadcast Registers

 [General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Cbo System Address Decoder and Broadcast Registers
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Cbo System Address Decoder and Broadcast Registers
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	15
 Function Number:	6
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6FFE&SUBSYS_6FE08086&REV_03

 [System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

 [Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

 [Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Caching Agent - 6FFE
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10

 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6FFE&SUBSYS_6FE08086&REV_03 \3&103A9D54&0&7E

Intel Broadwell-EN/EP/EP 4S/EX - R2PCIE

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - R2PCIE
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - R2PCIE
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	16
 Function Number:	0
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F1D&SUBSYS_6F1D8086&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D R2PCIe Agent - 6F1D
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6F1D&SUBSYS_6F1D8086&REV_03 \3&103A9D54&0&80

Intel Broadwell-EN/EP/EP 4S/EX - R2PCIE

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - R2PCIE
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - R2PCIE
 Device Class:	Performance counters
 Revision ID:	3
 Bus Number:	255
 Device Number:	16
 Function Number:	1
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F34&SUBSYS_6F348086&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D R2PCIe Agent - 6F34
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6F34&SUBSYS_6F348086&REV_03 \3&103A9D54&0&81

Intel Broadwell-EN/EP/EP 4S/EX UBox - Scratchpad and Semaphores

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX UBox - Scratchpad and Semaphores
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX UBox - Scratchpad and Semaphores
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	16

 Function Number:	5
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F1E&SUBSYS_6F1E8086&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Ubox - 6F1E
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6F1E&SUBSYS_6F1E8086&REV_03 \3&103A9D54&0&85

Intel Broadwell-EN/EP/EP 4S/EX UBox - Scratchpad and Semaphores

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX UBox - Scratchpad and Semaphores
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX UBox - Scratchpad and Semaphores
 Device Class:	Performance counters
 Revision ID:	3
 Bus Number:	255
 Device Number:	16
 Function Number:	6
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F7D&SUBSYS_6F7D8086&REV_03

[System Resources]

 Interrupt Line:	N/A
---	-----

 Interrupt Pin: N/A

[Features]

 Bus Mastering: Disabled

 Running At 66 MHz: Not Capable

 Fast Back-to-Back Transactions: Not Capable

[Driver Information]

 Driver Manufacturer: INTEL

 Driver Description: Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Ubox - 6F7D

 Driver Provider: INTEL

 Driver Version: 10.1.2.10

 Driver Date: 06-Aug-2015

 DeviceInstanceId: PCI\VEN_8086&DEV_6F7D&SUBSYS_6F7D8086&REV_03\3&103A9D54&0&86

Intel Broadwell-EN/EP/EP 4S/EX UBox - Scratchpad and Semaphores

[General Information]

 **Device Name:** Intel Broadwell-EN/EP/EP 4S/EX UBox - Scratchpad and Semaphores

 **Original Device Name:** Intel Broadwell-EN/EP/EP 4S/EX UBox - Scratchpad and Semaphores

 **Device Class:** Unknown Peripheral Device

 Revision ID: 3

 Bus Number: 255

 Device Number: 16

 Function Number: 7

 PCI Latency Timer: 0

 Hardware ID: PCI\VEN_8086&DEV_6F1F&SUBSYS_6F1F8086&REV_03

[System Resources]

 Interrupt Line: N/A

 Interrupt Pin: N/A

[Features]

 Bus Mastering: Disabled

 Running At 66 MHz: Not Capable

 Fast Back-to-Back Transactions: Not Capable

 [Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Ubox - 6F1F
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6F1F&SUBSYS_6F1F8086&REV_03 \3&103A9D54&0&87

Intel Broadwell-EN/EP/EP 4S/EX - Home Agent 0 - TAD and HA Config

 [General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Home Agent 0 - TAD and HA Config
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Home Agent 0 - TAD and HA Config
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	18
 Function Number:	0
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6FA0&SUBSYS_6FA08086&REV_03

 [System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

 [Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

 [Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Home Agent 0 - 6FA0
 Driver Provider:	INTEL

 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6FA0&SUBSYS_6FA08086&REV_03 \3&103A9D54&0&90

Intel Broadwell-EN/EP/EP 4S/EX - Home Agent 0 Perfmon

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Home Agent 0 Perfmon
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Home Agent 0 Perfmon
 Device Class:	Performance counters
 Revision ID:	3
 Bus Number:	255
 Device Number:	18
 Function Number:	1
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F30&SUBSYS_6F308086&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Home Agent 0 - 6F30
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6F30&SUBSYS_6F308086&REV_03 \3&103A9D54&0&91

Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller

0 - Target Address / Thermal / RAS Registers

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Target Address / Thermal / RAS Registers
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Target Address / Thermal / RAS Registers
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	19
 Function Number:	0
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6FA8&SUBSYS_6FA88086&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Memory Controller 0 - Target Address/Thermal/RAS - 6FA8
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6FA8&SUBSYS_6FA88086&REV_03\3&103A9D54&0&98

Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Target Address / Thermal / RAS

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Target Address / Thermal / RAS
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Target Address / Thermal / RAS
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	19
 Function Number:	1
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F71&SUBSYS_6F718086&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Memory Controller 0 - Target Address/Thermal/RAS - 6F71
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 Device Instance Id	PCI\VEN_8086&DEV_6F71&SUBSYS_6F718086&REV_03 \3&103A9D54&0&99

Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel Target Address Decoder Registers

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel Target Address Decoder Registers
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel Target Address

 Device Class: Revision ID: Bus Number: Device Number: Function Number: PCI Latency Timer: Hardware ID:**Decoder Registers****Unknown Peripheral Device**

3

255

19

2

0

PCI\VEN_8086&DEV_6FAA&SUBSYS_6FAA8086&REV_03

 [System Resources] Interrupt Line:

N/A

 Interrupt Pin:

N/A

 [Features] Bus Mastering:

Disabled

 Running At 66 MHz:

Not Capable

 Fast Back-to-Back Transactions:

Not Capable

 [Driver Information] Driver Manufacturer:

INTEL

 Driver Description:

Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Memory Controller 0 - Channel Target Address Decoder - 6FAA

 Driver Provider:

INTEL

 Driver Version:

10.1.2.10

 Driver Date:

06-Aug-2015

 DeviceInstanceIdPCI\VEN_8086&DEV_6FAA&SUBSYS_6FAA8086&REV_03
\3&103A9D54&0&9A

Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel Target Address Decoder Registers

 [General Information] **Device Name:****Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel Target Address Decoder Registers** **Original Device Name:****Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel Target Address Decoder Registers** **Device Class:****Unknown Peripheral Device** Revision ID:

3

 Bus Number:

255

 Device Number:	19
 Function Number:	3
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6FAB&SUBSYS_6FAB8086&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Memory Controller 0 - Channel Target Address Decoder - 6FAB
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6FAB&SUBSYS_6FAB8086&REV_03 \3&103A9D54&0&9B

Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel Target Address Decoder Registers

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel Target Address Decoder Registers
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel Target Address Decoder Registers
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	19
 Function Number:	4
 PCI Latency Timer:	0

 Hardware ID: PCI\VEN_8086&DEV_6FAC&SUBSYS_6FAC8086&REV_03

[System Resources]

 Interrupt Line: N/A

 Interrupt Pin: N/A

[Features]

 Bus Mastering: Disabled

 Running At 66 MHz: Not Capable

 Fast Back-to-Back Transactions: Not Capable

[Driver Information]

 Driver Manufacturer: INTEL

 Driver Description: Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Memory Controller 0 - Channel Target Address Decoder - 6FAC

 Driver Provider: INTEL

 Driver Version: 10.1.2.10

 Driver Date: 06-Aug-2015

 DeviceInstanceId: PCI\VEN_8086&DEV_6FAC&SUBSYS_6FAC8086&REV_03
\3&103A9D54&0&9C

Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel Target Address Decoder Registers

[General Information]

 Device Name: Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel Target Address Decoder Registers

 Original Device Name: Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel Target Address Decoder Registers

 Device Class: Unknown Peripheral Device

 Revision ID: 3

 Bus Number: 255

 Device Number: 19

 Function Number: 5

 PCI Latency Timer: 0

 Hardware ID: PCI\VEN_8086&DEV_6FAD&SUBSYS_6FAD8086&REV_03

[System Resources]

 Interrupt Line: N/A

 Interrupt Pin: N/A

[Features]

 Bus Mastering: Disabled

 Running At 66 MHz: Not Capable

 Fast Back-to-Back Transactions: Not Capable

[Driver Information]

 Driver Manufacturer: INTEL

 Driver Description: Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Memory Controller 0 - Channel Target Address Decoder - 6FAD

 Driver Provider: INTEL

 Driver Version: 10.1.2.10

 Driver Date: 06-Aug-2015

 DeviceInstanceId: PCI\VEN_8086&DEV_6FAD&SUBSYS_6FAD8086&REV_03\3&103A9D54&0&9D

Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - DDRIO Channel 0/1 Broadcast

[General Information]

 **Device Name:** Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - DDRIO Channel 0/1 Broadcast

 **Original Device Name:** Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - DDRIO Channel 0/1 Broadcast

 **Device Class:** Unknown Peripheral Device

 Revision ID: 3

 Bus Number: 255

 Device Number: 19

 Function Number: 6

 PCI Latency Timer: 0

 Hardware ID: PCI\VEN_8086&DEV_6FAE&SUBSYS_00000000&REV_03

[System Resources]

 Interrupt Line: N/A

 Interrupt Pin: N/A

[Features]

Bus Mastering: Disabled



Running At 66 MHz: Not Capable

Fast Back-to-Back Transactions: Not Capable

[Driver Information]

Driver Manufacturer: INTEL

Driver Description: Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D DDRIO Channel 0/1 Broadcast - 6FAE

Driver Provider: INTEL

Driver Version: 10.1.2.10

Driver Date: 06-Aug-2015

DeviceInstanceId: PCI\VEN_8086&DEV_6FAE&SUBSYS_00000000&REV_03\3&103A9D54&0&9E

Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - DDRIO Global Broadcast

[General Information]

Device Name: Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - DDRIO Global Broadcast

Original Device Name: Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - DDRIO Global Broadcast

Device Class: Unknown Peripheral Device

Revision ID: 3

Bus Number: 255

Device Number: 19

Function Number: 7

PCI Latency Timer: 0

Hardware ID: PCI\VEN_8086&DEV_6FAF&SUBSYS_00000000&REV_03

[System Resources]

Interrupt Line: N/A

Interrupt Pin: N/A

[Features]

Bus Mastering: Disabled

Running At 66 MHz: Not Capable

Fast Back-to-Back Transactions: Not Capable

[Driver Information]

Driver Manufacturer: INTEL

 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D DDRIO Global Broadcast - 6FAF
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6FAF&SUBSYS_00000000&REV_03 \3&103A9D54&0&9F

Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel 0 Thermal Control

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel 0 Thermal Control
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel 0 Thermal Control
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	20
 Function Number:	0
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6FB0&SUBSYS_6FB08086&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Memory Controller 0 - Channel 0 Thermal Control - 6FB0
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015

 DeviceInstanceIdPCI\VEN_8086&DEV_6FB0&SUBSYS_6FB08086&REV_03
\3&103A9D54&0&A0

Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel 1 Thermal Control

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel 1 Thermal Control
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel 1 Thermal Control
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	20
 Function Number:	1
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6FB1&SUBSYS_6FB18086&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Memory Controller 0 - Channel 1 Thermal Control - 6FB1
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6FB1&SUBSYS_6FB18086&REV_03 \3&103A9D54&0&A1

Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel 0 ERROR Registers

 [General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel 0 ERROR Registers
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel 0 ERROR Registers
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	20
 Function Number:	2
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6FB2&SUBSYS_6FB28086&REV_03

 [System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

 [Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

 [Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Memory Controller 0 - Channel 0 Error - 6FB2
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6FB2&SUBSYS_6FB28086&REV_03 \3&103A9D54&0&A2

Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel 1 ERROR Registers

 [General Information]

Intel Broadwell-EN/EP/EP 4S/EX - Integrated

 Device Name:	Memory Controller 0 - Channel 1 ERROR Registers
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel 1 ERROR Registers
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	20
 Function Number:	3
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6FB3&SUBSYS_6FB38086&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Memory Controller 0 - Channel 1 Error - 6FB3
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 Device Instance Id	PCI\VEN_8086&DEV_6FB3&SUBSYS_6FB38086&REV_03\3&103A9D54&0&A3

Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller DDRIO - VMSE0 Normal Registers

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller DDRIO - VMSE0 Normal Registers
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller DDRIO - VMSE0 Normal Registers

 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	20
 Function Number:	4
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6FBC&SUBSYS_00000000&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D DDRIO Channel 0/1 Interface - 6FBC
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6FBC&SUBSYS_00000000&REV_03 \3&103A9D54&0&A4

Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller DDRIO - VMSE0 Extended Registers

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller DDRIO - VMSE0 Extended Registers
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller DDRIO - VMSE0 Extended Registers
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	20

 Function Number:	5
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6FBD&SUBSYS_00000000&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D DDRIO Channel 0/1 Interface - 6FBD
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6FBD&SUBSYS_00000000&REV_03 \3&103A9D54&0&A5

Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller DDRIO - VMSE1 Normal Registers

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller DDRIO - VMSE1 Normal Registers
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller DDRIO - VMSE1 Normal Registers
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	20
 Function Number:	6
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6FBE&SUBSYS_00000000&REV_03

 [System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

 [Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

 [Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D DDRIO Channel 0/1 Interface - 6FBE
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6FBE&SUBSYS_00000000&REV_03 \3&103A9D54&0&A6

Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller DDRIO - VMSE1 Extended Registers

 [General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller DDRIO - VMSE1 Extended Registers
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller DDRIO - VMSE1 Extended Registers
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	20
 Function Number:	7
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6FBF&SUBSYS_00000000&REV_03

 [System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

 [Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

 [Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D DDRIO Channel 0/1 Interface - 6FBF
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6FBF&SUBSYS_00000000&REV_03 \3&103A9D54&0&A7

Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel 2 Thermal Control

 [General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel 2 Thermal Control
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel 2 Thermal Control
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	21
 Function Number:	0
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6FB4&SUBSYS_6FB48086&REV_03

 [System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

 [Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

 [Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Memory Controller 0 - Channel 2 Thermal Control - 6FB4
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6FB4&SUBSYS_6FB48086&REV_03 \3&103A9D54&0&A8

Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel 3 Thermal Control

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel 3 Thermal Control
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel 3 Thermal Control
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	21
 Function Number:	1
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6FB5&SUBSYS_6FB58086&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Memory Controller 0 - Channel 3 Thermal Control - 6FB5
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10

 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6FB5&SUBSYS_6FB58086&REV_03 \3&103A9D54&0&A9

Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel 2 ERROR Registers

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel 2 ERROR Registers
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel 2 ERROR Registers
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	21
 Function Number:	2
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6FB6&SUBSYS_6FB68086&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Memory Controller 0 - Channel 2 Error - 6FB6
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6FB6&SUBSYS_6FB68086&REV_03 \3&103A9D54&0&AA

Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel 3 ERROR Registers

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel 3 ERROR Registers
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Integrated Memory Controller 0 - Channel 3 ERROR Registers
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	21
 Function Number:	3
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6FB7&SUBSYS_6FB78086&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Memory Controller 0 - Channel 3 Error - 6FB7
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6FB7&SUBSYS_6FB78086&REV_03\3&103A9D54&0&AB

Intel Broadwell-EN/EP/EP 4S/EX - Power Management and Control

 [General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Power Management and Control
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Power Management and Control
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	30
 Function Number:	0
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F98&SUBSYS_6F988086&REV_03

 [System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

 [Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

 [Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Power Control Unit - 6F98
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6F98&SUBSYS_6F988086&REV_03 \3&103A9D54&0&F0

Intel Broadwell-EN/EP/EP 4S/EX - Power Management and Control

 [General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Power Management and Control
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Power Management and Control
 Device Class:	Unknown Peripheral Device

 Revision ID:	3
 Bus Number:	255
 Device Number:	30
 Function Number:	1
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F99&SUBSYS_6F998086&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Power Control Unit - 6F99
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 Device Instance Id	PCI\VEN_8086&DEV_6F99&SUBSYS_6F998086&REV_03 \3&103A9D54&0&F1

Intel Broadwell-EN/EP/EP 4S/EX - Power Management and Control

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Power Management and Control
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Power Management and Control
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	30
 Function Number:	2
 PCI Latency Timer:	0
Hardware ID:	PCI\VEN_8086&DEV_6F9A&SUBSYS_6F9A8086&REV_03

 **[System Resources]**

Interrupt Line:	N/A
Interrupt Pin:	N/A

[Features]

Bus Mastering:	Disabled
Running At 66 MHz:	Not Capable
Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

Driver Manufacturer:	INTEL
Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Power Control Unit - 6F9A
Driver Provider:	INTEL
Driver Version:	10.1.2.10
Driver Date:	06-Aug-2015
DeviceInstanceId	PCI\VEN_8086&DEV_6F9A&SUBSYS_6F9A8086&REV_03 \3&103A9D54&0&F2

Intel Broadwell-EN/EP/EP 4S/EX - Power Control Unit 0

 [General Information]

Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Power Control Unit 0
Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Power Control Unit 0
Device Class:	Unknown Peripheral Device
Revision ID:	3
Bus Number:	255
Device Number:	30
Function Number:	3
PCI Latency Timer:	0
Hardware ID:	PCI\VEN_8086&DEV_6FC0&SUBSYS_6FC08086&REV_03

[System Resources]

Interrupt Line:	N/A
Interrupt Pin:	N/A
I/O Base Address 0	14

 [Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

 [Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Power Control Unit - 6FC0
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 Device Instance Id	PCI\VEN_8086&DEV_6FC0&SUBSYS_6FC08086&REV_03 \3&103A9D54&0&F3

Intel Broadwell-EN/EP/EP 4S/EX - Power Management and Control

 [General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Power Management and Control
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Power Management and Control
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	30
 Function Number:	4
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F9C&SUBSYS_6F9C8086&REV_03

 [System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

 [Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

 [Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Power Control Unit - 6F9C
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6F9C&SUBSYS_6F9C8086&REV_03 \3&103A9D54&0&F4

Intel Broadwell-EN/EP/EP 4S/EX - Power Management and Control

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Power Management and Control
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Power Management and Control
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	31
 Function Number:	0
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F88&SUBSYS_00000000&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Power Control Unit - 6F88
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015

 DeviceInstanceIdPCI\VEN_8086&DEV_6F88&SUBSYS_00000000&REV_03
\3&103A9D54&0&F8

Intel Broadwell-EN/EP/EP 4S/EX - Power Management and Control

[General Information]

 Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Power Management and Control
 Original Device Name:	Intel Broadwell-EN/EP/EP 4S/EX - Power Management and Control
 Device Class:	Unknown Peripheral Device
 Revision ID:	3
 Bus Number:	255
 Device Number:	31
 Function Number:	2
 PCI Latency Timer:	0
 Hardware ID:	PCI\VEN_8086&DEV_6F8A&SUBSYS_00000000&REV_03

[System Resources]

 Interrupt Line:	N/A
 Interrupt Pin:	N/A

[Features]

 Bus Mastering:	Disabled
 Running At 66 MHz:	Not Capable
 Fast Back-to-Back Transactions:	Not Capable

[Driver Information]

 Driver Manufacturer:	INTEL
 Driver Description:	Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Power Control Unit - 6F8A
 Driver Provider:	INTEL
 Driver Version:	10.1.2.10
 Driver Date:	06-Aug-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_6F8A&SUBSYS_00000000&REV_03 \3&103A9D54&0&FA

Video Adapter

ASPEED AST2400

[Video chipset]

 Video Chipset:	ASPEED AST2400
 Video Chipset Codename:	
 Video Memory:	16 MBytes of DDR DRAM

[Video Card]

 Video Card:	ASPEED Technology AST2400 SOC [Super Micro Computer]
 Video Bus:	PCI
 Video RAMDAC:	AST DAC
 Video BIOS Version:	Unknown

[Performance]

 Memory Clock:	408.0 MHz (Effective 816.0 MHz)
 Hardware ID:	PCI\VEN_1A03&DEV_2000&SUBSYS_086D15D9&REV_30
 PCI Location (Bus:Dev:Fnc):	7:00:0

[Driver Information]

 Driver Manufacturer:	ASPEED
 Driver Description:	ASPEED Graphics Family(WDDM)
 Driver Provider:	ASPEED
 Driver Version:	9.0.10.102
 Driver Date:	26-Jul-2015
 DeviceInstanceId	PCI\VEN_1A03&DEV_2000&SUBSYS_086D15D9&REV_30 \5&9FF73FF&0&0000E4

Monitor

Drives

Floppy Drives

(S)ATA/ATAPI Drives

Samsung SSD 950 PRO 512GB

 Drive Model:	Samsung SSD 950 PRO 512GB
 Drive Serial Number:	S2GMNCAGA01492P
 Drive Firmware Revision:	1B0QBXX7
 NVMe Version Supported:	v1.0/1.1
 Drive Capacity:	488,386 MBytes (512 GB)
 Drive Capacity [MB]:	488386

[Capabilities]

 Volatile Write Cache:	Present
 Compare Command:	Supported
 Write Uncorrectable Command:	Supported
 Dataset Management:	Supported

[Self-Monitoring, Analysis and Reporting Technology (S.M.A.R.T.)]

 Available Space Below Threshold:	OK
 Temperature Exceeded Critical Threshold:	OK
 Device Reliability Degraded:	OK
 Media In Read Only Mode:	OK
 Volatile Memory Backup Device Failed:	OK

 Drive Temperature:	30 °C
 Spare Capacity Available:	100%
 Device Health:	100%
 Power Cycles:	112
 Power On Hours:	2295 hours
 Unsafe Shutdowns:	82
 Media Errors:	0
Total Host Reads:	10114 GBytes



Total Host Writes: 7967 GBytes

Samsung SSD 950 PRO 512GB

Drive Model:	Samsung SSD 950 PRO 512GB
Drive Serial Number:	S2GMNCAGA09855Z
Drive Firmware Revision:	1B0QBXX7
NVMe Version Supported:	v1.0/1.1
Drive Capacity:	488,386 MBytes (512 GB)
Drive Capacity [MB]:	488386

[Capabilities]

Volatile Write Cache:	Present
Compare Command:	Supported
Write Uncorrectable Command:	Supported
Dataset Management:	Supported

[Self-Monitoring, Analysis and Reporting Technology (S.M.A.R.T.)]

Available Space Below Threshold:	OK
Temperature Exceeded Critical Threshold:	OK
Device Reliability Degraded:	OK
Media In Read Only Mode:	OK
Volatile Memory Backup Device Failed:	OK
Drive Temperature:	32 °C
Spare Capacity Available:	100%
Device Health:	100%
Power Cycles:	30
Power On Hours:	168 hours
Unsafe Shutdowns:	27
Media Errors:	0
Total Host Reads:	96 GBytes
Total Host Writes:	1018 GBytes

INTEL SSDSC2BB120G6

[General Information]

 Drive Controller:	Serial ATA 6Gb/s @ 6Gb/s
 Drive Model:	INTEL SSDSC2BB120G6
 Drive Revision:	G2010140
 Drive Serial Number:	PHWA550400E7120CGN
 World Wide Name:	55CD2E404C69C405
 Drive Capacity:	114,473 MBytes (120 GB)
 Drive Capacity [MB]:	114473
 Media Rotation Rate:	SSD Drive (Non-rotating)
 Nominal Form Factor:	2.5"
 ATA Major Version Supported:	ATA/ATAPI-5, ATA/ATAPI-6, ATA/ATAPI-7, ATA8-ACS, ACS-2
 ATA Minor Version Supported:	ACS-2 Revision 3
 ATA Transport Version Supported:	SATA 2.6

[Drive Geometry]

 Number of Cylinders:	16383
 Number of Heads:	16
 Sectors Per Track:	63
 Number of Sectors:	16514064
 Total 32-bit LBA Sectors:	234441648
 Total 48-bit LBA Sectors:	234441648
 Cache Buffer Size:	N/A

[Transfer Modes]

 Sectors Per Interrupt:	Total: 1, Active: 1
 Max. PIO Transfer Mode:	4
 Multiword DMA Mode:	Total: 2, Active: -
 Singleword DMA Mode:	Total: -, Active: -
 Ultra-DMA Mode:	Total: 6 (ATA-133), Active: 5 (ATA-100)
 Max. Multiword DMA Transfer Rate:	16.7 MBytes/s
 Max. PIO with IORDY Transfer Rate:	16.7 MBytes/s
 Max. PIO w/o IORDY Transfer Rate:	16.7 MBytes/s
 Native Command Queuing:	Supported, Max. Depth: 32
 TRIM Command:	Supported (Deterministic Read After TRIM, Words = 0)

[Device flags]

 Fixed Drive:	Present
 Removable Drive:	Not Present
 Magnetic Storage:	Present

✔ LBA Mode:	Supported
✔ DMA Mode:	Supported
✔ IORDY:	Supported
✔ IORDY Disableable:	Supported

[Features]

✔ Write Cache:	Present, Active
✔ S.M.A.R.T. Feature:	Present, Active
✔ Security Feature:	Present, Inactive
✘ Removable Media Feature:	Not Present, Disabled
✔ Power Management:	Present, Active
✘ Advanced Power Management:	Not Present, Inactive
✘ Packet Interface:	Not Present, Disabled
✔ Look-Ahead Buffer:	Present, Active
✔ Host Protected Area:	Present, Enabled
✘ Power-Up In Standby:	Not Supported, Inactive
✘ Automatic Acoustic Management:	Not Supported, Inactive
✔ 48-bit LBA:	Supported, Active
✘ Host-Initiated Link Power Management:	Not Supported
✘ Device-Initiated Link Power Management:	Not Supported
✘ In-Order Data Delivery:	Not Supported
✘ Hardware Feature Control:	Not Supported
✔ Software Settings Preservation:	Supported, Enabled
✘ NCQ Autosense:	Not Supported
✘ Link Power State Device Sleep:	Not Supported
✘ Hybrid Information Feature:	Not Supported
✘ Rebuild Assist:	Not Supported
✘ Power Disable:	Not Supported
✘ All Write Cache Non-Volatile:	Not Supported
✘ Extended Number of User Addressable Sectors:	Not Supported
✘ CFAST Specification:	Not Supported
✘ NCQ Priority Information:	Not Supported
✘ Host Automatic Partial to Slumber Transitions:	Not Supported
✘ Device Automatic Partial to Slumber Transitions:	Not Supported
✘ NCQ Streaming:	Not Supported
✘ NCQ Queue Management Command:	Not Supported
✘ DevSleep to Reduced Power State:	Not Supported
✘ Extended Power Conditions Feature:	Not Supported
✔ Sense Data Reporting Feature:	Supported, Disabled

✖ Free-Fall Control Feature:	Not Supported
✖ Write-Read-Verify Feature:	Not Supported

[Security]

✔ Security Feature:	Supported
✖ Security Status:	Disabled
✖ Security Locked:	Disabled
✔ Security Frozen:	Enabled
✔ Enhanced Security Erase:	Supported
✔ Sanitize Feature:	Supported
✔ Sanitize Device - Crypto Scramble:	Supported
✖ Sanitize Device - Overwrite:	Not Supported
✔ Sanitize Device - Block Erase:	Supported
✖ Sanitize Device - Antifreeze Lock:	Not Supported
✔ Device Encrypts All User Data:	Supported
✖ Trusted Computing:	Not Supported

[Self-Monitoring, Analysis and Reporting Technology (S.M.A.R.T.)]

✔ [05] Reallocated Sector Count:	100/Always OK, Worst: 100
✔ [09] Power-On Hours/Cycle Count:	100/Always OK, Worst: 100 (Data = 197 hours / 8.2 days)
✔ [0C] Power Cycle Count:	100/Always OK, Worst: 100 (Data = 84)
✔ [AA] Available Reserved Space/Block Count:	100/10, Worst: 100
✔ [AB] Program Fail Count (Total):	100/Always OK, Worst: 100
✔ [AC] Erase Fail Count (Total):	100/Always OK, Worst: 100
✔ [AE] Unexpected Power Loss Count:	100/Always OK, Worst: 100 (Data = 75)
✔ [AF] Power Loss Protection Failure:	100/10, Worst: 100 (Data = 1446502)
✔ [B7] SATA Downshift Count:	100/Always OK, Worst: 100
✔ [B8] End-to-End Data Errors Corrected	100/90, Worst: 100
✔ [BB] Uncorrectable Error Count:	100/Always OK, Worst: 100
✔ [BE] Airflow Temperature:	80/Always OK, Worst: 80 (Data = 20.0 °C)
✔ [C0] Unsafe Shutdown Count:	100/Always OK, Worst: 100 (Data = 75)
✔ [C2] Temperature	100/Always OK, Worst: 100 (Data = 20.0 °C)
✔ [C5] Current Pending Sector Count:	100/Always OK, Worst: 100
✔ [C7] SATA CRC Error Count:	100/Always OK, Worst: 100
✔ [E1] Host Writes:	100/Always OK, Worst: 100 (Data = 8239)
✔ [E2] Timed Workload Media Wear:	100/Always OK, Worst: 100 (Data = 31)
✔ [E3] Timed Workload Host Read/Write Ratio:	100/Always OK, Worst: 100 (Data = 37)
✔ [E4] Timed Workload Timer:	100/Always OK, Worst: 100 (Data = 11332)
✔ [E8] Available Reserved Space:	100/10, Worst: 100
✔ [E9] Media Wearout Indicator:	100/Always OK, Worst: 100

 [EA] Thermal Throttle Status:	100/Always OK, Worst: 100
 [F1] Total Host Writes:	100/Always OK, Worst: 100 (Data = 8239)
 [F2] Total Host Reads:	100/Always OK, Worst: 100 (Data = 4866)
 [F3] ECC Bits Corrected:	100/Always OK, Worst: 100 (Data = 11197)
 Drive Remaining Life	100%

NVMe Samsung SSD 950

[General information]

 Drive Model:	NVMe Samsung SSD 950
 Drive Revision:	1B0Q
 Device Type:	Disk drive

NVMe Samsung SSD 950

[General information]

 Drive Model:	NVMe Samsung SSD 950
 Drive Revision:	1B0Q
 Device Type:	Disk drive

Audio

Unknown or none

Network

Intel Ethernet Connection X552/X557-AT 10GBASE-T

(KR/10GBASE-T PHY)

[General information]

 Network Card:	Intel Ethernet Connection X552/X557-AT 10GBASE-T (KR/10GBASE-T PHY)
 Vendor Description:	Intel(R) Ethernet Connection X552/X557-AT 10GBASE-T
 MAC Address:	0C-C4-7A-C2-A8-3D

[Capabilities]

 Maximum Link Speed:	10000 Mbps
 Transmit Buffer Size:	6201344 Bytes
 Receive Buffer Size:	8388608 Bytes
 Hardware ID:	PCI\VEN_8086&DEV_15AD&SUBSYS_15AD15D9&REV_00

[Driver Information]

 Driver Manufacturer:	Intel
 Driver Description:	Intel(R) Ethernet Connection X552/X557-AT 10GBASE-T
 Driver Provider:	Intel
 Driver Version:	3.10.162.0
 Driver Date:	27-Apr-2015
 Device Instance ID:	PCI\VEN_8086&DEV_15AD&SUBSYS_15AD15D9&REV_00 \4&25BF7826&0&0012

Intel Ethernet Connection X552/X557-AT 10GBASE-T (KR/10GBASE-T PHY)

[General information]

 Network Card:	Intel Ethernet Connection X552/X557-AT 10GBASE-T (KR/10GBASE-T PHY)
 Vendor Description:	Intel(R) Ethernet Connection X552/X557-AT 10GBASE-T
 MAC Address:	0C-C4-7A-C2-A8-3C

[Capabilities]

 Maximum Link Speed:	10000 Mbps
 Transmit Buffer Size:	6201344 Bytes
 Receive Buffer Size:	8388608 Bytes
 Hardware ID:	PCI\VEN_8086&DEV_15AD&SUBSYS_15AD15D9&REV_00

 [Driver Information]

 Driver Manufacturer:	Intel
 Driver Description:	Intel(R) Ethernet Connection X552/X557-AT 10GBASE-T
 Driver Provider:	Intel
 Driver Version:	3.10.162.0
 Driver Date:	27-Apr-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_15AD&SUBSYS_15AD15D9&REV_00\4&25BF7826&0&0112

Intel I350 Gigabit 1000BaseT Network Ethernet Adapter (Copper)

 [General information]

 Network Card:	Intel I350 Gigabit 1000BaseT Network Ethernet Adapter (Copper)
 Vendor Description:	Intel(R) I350 Gigabit Network Connection
 MAC Address:	0C-C4-7A-C2-A2-6E

 [Capabilities]

 Maximum Link Speed:	1000 Mbps
 Transmit Buffer Size:	1550336 Bytes
 Receive Buffer Size:	779264 Bytes
 Hardware ID:	PCI\VEN_8086&DEV_1521&SUBSYS_152115D9&REV_01

 [Driver Information]

 Driver Manufacturer:	Intel Corporation
 Driver Description:	Intel(R) I350 Gigabit Network Connection
 Driver Provider:	Microsoft
 Driver Version:	12.12.50.6
 Driver Date:	19-Mar-2015
 DeviceInstanceId	PCI\VEN_8086&DEV_1521&SUBSYS_152115D9&REV_01\4&2F633FA9&0&00E0

Intel I350 Gigabit 1000BaseT Network Ethernet Adapter (Copper)

 [General information]

 Network Card:	Intel I350 Gigabit 1000BaseT Network Ethernet Adapter (Copper)
 Vendor Description:	Intel(R) I350 Gigabit Network Connection

 MAC Address: 0C-C4-7A-C2-A2-6F

[Capabilities]

 Maximum Link Speed: 1000 Mbps
 Transmit Buffer Size: 1550336 Bytes
 Receive Buffer Size: 779264 Bytes
 Hardware ID: PCI\VEN_8086&DEV_1521&SUBSYS_152115D9&REV_01

[Driver Information]

 Driver Manufacturer: Intel Corporation
 Driver Description: Intel(R) I350 Gigabit Network Connection
 Driver Provider: Microsoft
 Driver Version: 12.12.50.6
 Driver Date: 19-Mar-2015
 Device Instance Id: PCI\VEN_8086&DEV_1521&SUBSYS_152115D9&REV_01
\4&2F633FA9&0&01E0

Ports

Serial Ports

Parallel Ports

USB

Intel(R) 8 Series/C220 Series USB EHCI #2 - 8C2D

Root Hub

[Port1] : USB Hub

[Port1] : No Device Connected

[Port2] : No Device Connected

[Port3] : No Device Connected

[Port4] : No Device Connected

[Port2] : No Device Connected

USB xHCI Compliant Host Controller

Root Hub

[Port1] : USB Input Device

[Device Information]

 Device Manufacturer:	CP1000PFCLCD
 Product Name:	CRDA103.981
 Serial Number:	CPS
 USB Version Supported:	2.00
 USB Device Speed:	USB 1.1 Full-speed
 Driver Description:	USB Input Device
 Hardware ID:	USB\VID_0764&PID_0501

[Driver Information]

 Driver Manufacturer:	(Standard system devices)
 Driver Description:	USB Input Device
 Driver Provider:	Microsoft
 Driver Version:	10.0.10586.0
 Driver Date:	20-Jun-2006
 DeviceInstanceId	USB\VID_0764&PID_0501\CPS

[Port2] : No Device Connected

[Port3] : No Device Connected

[Port4] : USB Hub

[Port1] : USB Composite Device

[Device Information]

 Device Manufacturer:	N/A
 Product Name:	N/A
 Serial Number:	N/A
 USB Version Supported:	1.10
 USB Device Speed:	USB 1.1 Low-speed
 Driver Description:	USB Composite Device
 Hardware ID:	USB\VID_0557&PID_2419

[Driver Information]

 Driver Manufacturer:	(Standard USB Host Controller)
 Driver Description:	USB Composite Device
 Driver Provider:	Microsoft
 Driver Version:	10.0.10586.0
 Driver Date:	20-Jun-2006
 DeviceInstanceId	USB\VID_0557&PID_2419\6&2A7C0E1D&0&1

[Port2] : No Device Connected

[Port3] : No Device Connected

[Port4] : No Device Connected

[Port5] : No Device Connected

[Port6] : No Device Connected

[Port7] : No Device Connected

[Port8] : No Device Connected

[Port9] : Device General Failure

[Port10] : Device General Failure

[Port11] : Device General Failure

[Port12] : Device General Failure

[Port13] : Device General Failure

[Port14] : Device General Failure

[Port15] : Device General Failure

[Port16] : No Device Connected

[Port17] : No Device Connected

[Port18] : No Device Connected

[Port19] : No Device Connected

[Port20] : No Device Connected

[Port21] : No Device Connected

Intel(R) 8 Series/C220 Series USB EHCI #1 - 8C26

Root Hub

[Port1] : USB Hub

[Port1] : No Device Connected

[Port2] : No Device Connected

[Port3] : USB Hub

[Port1] : USB Mass Storage Device

[Device Information]

 Device Manufacturer:	SanDisk
 Product Name:	Ultra Fit
 Serial Number:	4C531146331113110104
 USB Version Supported:	3.00 (Connected to a USB 2.00 Port)
 USB Device Speed:	USB 2.0 High-speed
 Driver Description:	USB Mass Storage Device
 Hardware ID:	USB\VID_0781&PID_5583

[Driver Information]

 Driver Manufacturer:	Compatible USB storage device
 Driver Description:	USB Mass Storage Device
 Driver Provider:	Microsoft
 Driver Version:	10.0.10586.0
 Driver Date:	20-Jun-2006
 DeviceInstanceId	USB\VID_0781&PID_5583\4C531146331113110104

[Port2] : No Device Connected

[Port3] : No Device Connected

[Port4] : No Device Connected

[Port4] : No Device Connected

[Port2] : No Device Connected
