

CPU-Z TXT Report

Binaries

CPU-Z version 1.91.0.x64

Processors

Number of sockets 1
Number of threads 8

APICs

Socket 0

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

Timers

ACPI timer 3.580 MHz
Perf timer 10.000 MHz
Sys timer 1.000 KHz

Processors Information

Socket 1 ID = 0
 Number of cores 4 (max 4)
 Number of threads 8 (max 8)
 Manufacturer GenuineIntel
 Name Intel Core i7 4790K
 Codename Haswell
 Specification Intel(R) Core(TM) i7-4790K CPU @ 4.00GHz
 Package (platform ID) Socket 1150 LGA (0x1)
 CUID 6.C.3
 Extended CUID 6.3C
 Core Stepping C0
 Technology 22 nm

TDP Limit	88.0 Watts
Tjmax	100.0 °C
Core Speed	4197.5 MHz
Multiplier x Bus Speed	42.0 x 99.9 MHz
Base frequency (cores)	99.9 MHz
Base frequency (ext.)	99.9 MHz
Stock frequency	4000 MHz
Instructions sets	MMX, SSE, SSE2, SSE3, SSSE3, SSE4.1, SSE4.2,
EM64T, VT-x, AES, AVX, AVX2, FMA3	
Microcode Revision	0x25
L1 Data cache	4 x 32 KBytes, 8-way set associative, 64-byte
line size	
L1 Instruction cache	4 x 32 KBytes, 8-way set associative, 64-byte
line size	
L2 cache	4 x 256 KBytes, 8-way set associative, 64-byte
line size	
L3 cache	8 MBytes, 16-way set associative, 64-byte line
size	
Max CPUID level	0000000Dh
Max CPUID ext. level	80000008h
Cache descriptor	Level 1, D, 32 KB, 2 thread(s)
Cache descriptor	Level 1, I, 32 KB, 2 thread(s)
Cache descriptor	Level 2, U, 256 KB, 2 thread(s)
Cache descriptor	Level 3, U, 8 MB, 16 thread(s)
FID/VID Control	yes
Turbo Mode	supported, enabled
Max non-turbo ratio	40x
Max turbo ratio	44x
Max efficiency ratio	8x
O/C bins	unlimited
Ratio 1 core	44x
Ratio 2 cores	44x
Ratio 3 cores	43x
Ratio 4 cores	42x
IA Voltage Mode	PCU adaptive
IA Voltage Offset	0 mV
GT Voltage Mode	PCU adaptive
GT Voltage Offset	0 mV
LLC/Ring Voltage Mode	PCU adaptive
LLC/Ring Voltage Offset	0 mV
Agent Voltage Mode	PCU adaptive
Agent Voltage Offset	0 mV
TDP Level	88.0 W @ 40x
Temperature 0	34 degC (93 degF) (Package)
Temperature 1	33 degC (91 degF) (Core #0)
Temperature 2	34 degC (93 degF) (Core #1)
Temperature 3	30 degC (86 degF) (Core #2)
Temperature 4	32 degC (89 degF) (Core #3)
Voltage 0	1.16 Volts (VID)
Voltage 1	+0.00 Volts (IA Offset)
Voltage 2	+0.00 Volts (GT Offset)

Voltage 3	+0.00 Volts (LLC/Ring Offset)
Voltage 4	+0.00 Volts (System Agent Offset)
Power 00	17.79 W (Package)
Power 01	10.10 W (IA Cores)
Power 02	n.a. (GT)
Power 03	5.85 W (Uncore)
Power 04	1.84 W (DRAM)
Clock Speed 0	4197.52 MHz (Core #0)
Clock Speed 1	4297.46 MHz (Core #1)
Clock Speed 2	4297.46 MHz (Core #2)
Clock Speed 3	4197.52 MHz (Core #3)
Core 0 max ratio	44.0 (effective 44.0)
Core 1 max ratio	44.0 (effective 44.0)
Core 2 max ratio	44.0 (effective 44.0)
Core 3 max ratio	44.0 (effective 44.0)

Thread dumps

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```

CPU Thread 0	APIC ID	0		
Topology		Processor ID 0, Core ID 0, Thread ID 0		
CPUID				
0x49656E69	0x00000000	0x0000000D	0x756E6547	0x6C65746E
0xBFEBFBFF	0x00000001	0x000306C3	0x00100800	0x7FFAFBBF
0x00C10000	0x00000002	0x76036301	0x00F0B5FF	0x00000000
0x00000000	0x00000003	0x00000000	0x00000000	0x00000000
0x00000000	0x00000004	0x1C004121	0x01C0003F	0x0000003F
0x00000000	0x00000004	0x1C004122	0x01C0003F	0x0000003F
0x00000000	0x00000004	0x1C004143	0x01C0003F	0x000001FF
0x00000000	0x00000004	0x1C03C163	0x03C0003F	0x00001FFF
0x00000006	0x00000005	0x00000040	0x00000040	0x00000003
0x00042120	0x00000006	0x00000077	0x00000002	0x00000001
0x00000000	0x00000007	0x00000000	0x000027AB	0x00000000
0x9C000000	0x00000008	0x00000000	0x00000000	0x00000000
0x00000000	0x00000009	0x00000000	0x00000000	0x00000000
0x00000000	0x0000000A	0x07300403	0x00000000	0x00000000
0x00000603	0x0000000B	0x00000001	0x00000002	0x00000100

0x00000000	0x0000000B	0x00000004	0x00000008	0x00000201
0x00000000	0x0000000C	0x00000000	0x00000000	0x00000000
0x00000000	0x0000000D	0x00000007	0x00000340	0x00000340
0x00000000	0x0000000D	0x00000001	0x00000000	0x00000000
0x00000000	0x0000000D	0x00000100	0x00000240	0x00000000
0x00000000	0x80000000	0x80000008	0x00000000	0x00000000
0x00000000	0x80000001	0x00000000	0x00000000	0x00000021
0x2C100800	0x80000002	0x65746E49	0x2952286C	0x726F4320
0x4D542865	0x80000003	0x37692029	0x3937342D	0x43204B30
0x40205550	0x80000004	0x302E3420	0x7A484730	0x00000000
0x00000000	0x80000005	0x00000000	0x00000000	0x00000000
0x00000000	0x80000006	0x00000000	0x00000000	0x01006040
0x00000000	0x80000007	0x00000000	0x00000000	0x00000000
0x00000100	0x80000008	0x00003027	0x00000000	0x00000000
0x00000000				

MSR 0x0000001B	0x00000000	0xFEE00900
MSR 0x0000003A	0x00000000	0x00000005
MSR 0x00000048	0x00000000	0x00000000
MSR 0x000001A0	0x00000000	0x00850089
MSR 0x000000CE	0x00080838	0xF3012800
MSR 0x00000017	0x00040000	0x00000000
MSR 0x00000035	0x00000000	0x00040008
MSR 0x000000C1	0x00000000	0x00000000
MSR 0x000000C2	0x00000000	0x00000000
MSR 0x000000C3	0x00000000	0x00000000
MSR 0x000000C4	0x00000000	0x00000000
MSR 0x00000186	0x00000000	0x00000000
MSR 0x00000187	0x00000000	0x00000000
MSR 0x000001AD	0x00000000	0x2A2B2C2C
MSR 0x00000194	0x00000000	0x000F0000
MSR 0x0000019A	0x00000000	0x00000000
MSR 0x000001A4	0x00000000	0x00000000
MSR 0x000001B1	0x00000000	0x88370800
MSR 0x000001FC	0x00000000	0x0000005F
MSR 0x00000606	0x00000000	0x000A0E03
MSR 0x00000601	0x00101414	0x00001F40
MSR 0x00000610	0x00429F40	0x001A9F40
MSR 0x00000611	0x00000000	0xB60F5546
MSR 0x00000639	0x00000000	0x4B8BD2C9

MSR 0x00000641	0x00000000	0x00000000
MSR 0x00000619	0x00000000	0x293717C6
MSR 0x00000614	0x00000000	0x000002C0
MSR 0x00000648	0x00000000	0x00000028
MSR 0x00000649	0x00000000	0x00000000
MSR 0x0000064A	0x00000000	0x00000000
MSR 0x0000064B	0x00000000	0x80000000
MSR 0x0000019C	0x00000000	0x883A0000
MSR 0x000001A2	0x00000000	0x00641400
MSR 0x00000198	0x000024F7	0x00002A00
MSR 0x00000199	0x00000000	0x0000FF00

CPU Thread 1

APIC ID
Topology

1

Processor ID 0, Core ID 0, Thread ID 1

CPUID			
0x00000000	0x0000000D	0x756E6547	0x6C65746E
0x49656E69			
0x00000001	0x000306C3	0x01100800	0x7FFAFBBF
0xBFEBFBFF			
0x00000002	0x76036301	0x00F0B5FF	0x00000000
0x00C10000			
0x00000003	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000004	0x1C004121	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004122	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004143	0x01C0003F	0x000001FF
0x00000000			
0x00000004	0x1C03C163	0x03C0003F	0x00001FFF
0x00000006			
0x00000005	0x00000040	0x00000040	0x00000003
0x00042120			
0x00000006	0x00000077	0x00000002	0x00000001
0x00000000			
0x00000007	0x00000000	0x000027AB	0x00000000
0x9C000000			
0x00000008	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000009	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000A	0x07300403	0x00000000	0x00000000
0x00000603			
0x0000000B	0x00000001	0x00000002	0x00000100
0x00000001			
0x0000000B	0x00000004	0x00000008	0x00000201
0x00000001			
0x0000000C	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000D	0x00000007	0x00000340	0x00000340
0x00000000			
0x0000000D	0x00000001	0x00000000	0x00000000

0x00000000	0x0000000D	0x00000100	0x00000240	0x00000000
0x00000000	0x80000000	0x80000008	0x00000000	0x00000000
0x00000000	0x80000001	0x00000000	0x00000000	0x00000021
0x2C100800	0x80000002	0x65746E49	0x2952286C	0x726F4320
0x4D542865	0x80000003	0x37692029	0x3937342D	0x43204B30
0x40205550	0x80000004	0x302E3420	0x7A484730	0x00000000
0x00000000	0x80000005	0x00000000	0x00000000	0x00000000
0x00000000	0x80000006	0x00000000	0x00000000	0x01006040
0x00000000	0x80000007	0x00000000	0x00000000	0x00000000
0x00000100	0x80000008	0x00003027	0x00000000	0x00000000
0x00000000				

MSR 0x0000001B	0x00000000	0xFEE00800
MSR 0x0000003A	0x00000000	0x00000005
MSR 0x00000048	0x00000000	0x00000000
MSR 0x000001A0	0x00000000	0x00850089
MSR 0x000000CE	0x00080838	0xF3012800
MSR 0x00000017	0x00040000	0x00000000
MSR 0x00000035	0x00000000	0x00040008
MSR 0x000000C1	0x00000000	0x00000000
MSR 0x000000C2	0x00000000	0x00000000
MSR 0x000000C3	0x00000000	0x00000000
MSR 0x000000C4	0x00000000	0x00000000
MSR 0x00000186	0x00000000	0x00000000
MSR 0x00000187	0x00000000	0x00000000
MSR 0x000001AD	0x00000000	0x2A2B2C2C
MSR 0x00000194	0x00000000	0x000F0000
MSR 0x0000019A	0x00000000	0x00000000
MSR 0x000001A4	0x00000000	0x00000000
MSR 0x000001B1	0x00000000	0x883A0800
MSR 0x000001FC	0x00000000	0x0000005F
MSR 0x00000606	0x00000000	0x000A0E03
MSR 0x00000601	0x00101414	0x00001F40
MSR 0x00000610	0x00429F40	0x001A9F40
MSR 0x00000611	0x00000000	0xB60F9C97
MSR 0x00000639	0x00000000	0x4B8C0F35
MSR 0x00000641	0x00000000	0x00000000
MSR 0x00000619	0x00000000	0x29371B6D
MSR 0x00000614	0x00000000	0x000002C0
MSR 0x00000648	0x00000000	0x00000028
MSR 0x00000649	0x00000000	0x00000000
MSR 0x0000064A	0x00000000	0x00000000
MSR 0x0000064B	0x00000000	0x80000000
MSR 0x0000019C	0x00000000	0x883A0000

MSR 0x000001A2	0x00000000	0x00641400
MSR 0x00000198	0x000024F7	0x00002A00
MSR 0x00000199	0x00000000	0x0000FF00

CPU Thread 2

APIC ID

2

Topology

Processor ID 0, Core ID 1, Thread ID 0

CPUID

0x00000000	0x0000000D	0x756E6547	0x6C65746E
0x49656E69			
0x00000001	0x000306C3	0x02100800	0x7FFAFBBF
0xBFEBFBFF			
0x00000002	0x76036301	0x00F0B5FF	0x00000000
0x00C10000			
0x00000003	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000004	0x1C004121	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004122	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004143	0x01C0003F	0x000001FF
0x00000000			
0x00000004	0x1C03C163	0x03C0003F	0x00001FFF
0x00000006			
0x00000005	0x00000040	0x00000040	0x00000003
0x00042120			
0x00000006	0x00000077	0x00000002	0x00000001
0x00000000			
0x00000007	0x00000000	0x000027AB	0x00000000
0x9C000000			
0x00000008	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000009	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000A	0x07300403	0x00000000	0x00000000
0x00000603			
0x0000000B	0x00000001	0x00000002	0x00000100
0x00000002			
0x0000000B	0x00000004	0x00000008	0x00000201
0x00000002			
0x0000000C	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000D	0x00000007	0x00000340	0x00000340
0x00000000			
0x0000000D	0x00000001	0x00000000	0x00000000
0x00000000			
0x0000000D	0x00000100	0x00000240	0x00000000
0x00000000			
0x80000000	0x80000008	0x00000000	0x00000000
0x00000000			
0x80000001	0x00000000	0x00000000	0x00000021
0x2C100800			
0x80000002	0x65746E49	0x2952286C	0x726F4320

0x4D542865			
0x80000003	0x37692029	0x3937342D	0x43204B30
0x40205550			
0x80000004	0x302E3420	0x7A484730	0x00000000
0x00000000			
0x80000005	0x00000000	0x00000000	0x00000000
0x00000000			
0x80000006	0x00000000	0x00000000	0x01006040
0x00000000			
0x80000007	0x00000000	0x00000000	0x00000000
0x00000100			
0x80000008	0x00003027	0x00000000	0x00000000
0x00000000			

MSR 0x0000001B	0x00000000	0xFEE00800
MSR 0x0000003A	0x00000000	0x00000005
MSR 0x00000048	0x00000000	0x00000000
MSR 0x000001A0	0x00000000	0x00850089
MSR 0x000000CE	0x00080838	0xF3012800
MSR 0x00000017	0x00040000	0x00000000
MSR 0x00000035	0x00000000	0x00040008
MSR 0x000000C1	0x00000000	0x00000000
MSR 0x000000C2	0x00000000	0x00000000
MSR 0x000000C3	0x00000000	0x00000000
MSR 0x000000C4	0x00000000	0x00000000
MSR 0x00000186	0x00000000	0x00000000
MSR 0x00000187	0x00000000	0x00000000
MSR 0x000001AD	0x00000000	0x2A2B2C2C
MSR 0x00000194	0x00000000	0x000F0000
MSR 0x0000019A	0x00000000	0x00000000
MSR 0x000001A4	0x00000000	0x00000000
MSR 0x000001B1	0x00000000	0x88350800
MSR 0x000001FC	0x00000000	0x0000005F
MSR 0x00000606	0x00000000	0x000A0E03
MSR 0x00000601	0x00101414	0x00001F40
MSR 0x00000610	0x00429F40	0x001A9F40
MSR 0x00000611	0x00000000	0xB60FDF72
MSR 0x00000639	0x00000000	0x4B8C4764
MSR 0x00000641	0x00000000	0x00000000
MSR 0x00000619	0x00000000	0x29371E9E
MSR 0x00000614	0x00000000	0x000002C0
MSR 0x00000648	0x00000000	0x00000028
MSR 0x00000649	0x00000000	0x00000000
MSR 0x0000064A	0x00000000	0x00000000
MSR 0x0000064B	0x00000000	0x80000000
MSR 0x0000019C	0x00000000	0x88350000
MSR 0x000001A2	0x00000000	0x00641400
MSR 0x00000198	0x000024F7	0x00002A00
MSR 0x00000199	0x00000000	0x0000FF00

CPU Thread 3

APIC ID

Topology

3

Processor ID 0, Core ID 1, Thread ID 1

CPUID			
0x00000000	0x0000000D	0x756E6547	0x6C65746E
0x49656E69			
0x00000001	0x000306C3	0x03100800	0x7FFAFBBF
0xBFEBFBFF			
0x00000002	0x76036301	0x00F0B5FF	0x00000000
0x00C10000			
0x00000003	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000004	0x1C004121	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004122	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004143	0x01C0003F	0x000001FF
0x00000000			
0x00000004	0x1C03C163	0x03C0003F	0x00001FFF
0x00000006			
0x00000005	0x00000040	0x00000040	0x00000003
0x00042120			
0x00000006	0x00000077	0x00000002	0x00000001
0x00000000			
0x00000007	0x00000000	0x000027AB	0x00000000
0x9C000000			
0x00000008	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000009	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000A	0x07300403	0x00000000	0x00000000
0x00000603			
0x0000000B	0x00000001	0x00000002	0x00000100
0x00000003			
0x0000000B	0x00000004	0x00000008	0x00000201
0x00000003			
0x0000000C	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000D	0x00000007	0x00000340	0x00000340
0x00000000			
0x0000000D	0x00000001	0x00000000	0x00000000
0x00000000			
0x0000000D	0x00000100	0x00000240	0x00000000
0x00000000			
0x80000000	0x80000008	0x00000000	0x00000000
0x00000000			
0x80000001	0x00000000	0x00000000	0x00000021
0x2C100800			
0x80000002	0x65746E49	0x2952286C	0x726F4320
0x4D542865			
0x80000003	0x37692029	0x3937342D	0x43204B30
0x40205550			
0x80000004	0x302E3420	0x7A484730	0x00000000
0x00000000			
0x80000005	0x00000000	0x00000000	0x00000000
0x00000000			
0x80000006	0x00000000	0x00000000	0x01006040

0x00000000			
0x80000007	0x00000000	0x00000000	0x00000000
0x00000100			
0x80000008	0x00003027	0x00000000	0x00000000
0x00000000			

MSR 0x0000001B	0x00000000	0xFEE00800
MSR 0x0000003A	0x00000000	0x00000005
MSR 0x00000048	0x00000000	0x00000000
MSR 0x000001A0	0x00000000	0x00850089
MSR 0x000000CE	0x00080838	0xF3012800
MSR 0x00000017	0x00040000	0x00000000
MSR 0x00000035	0x00000000	0x00040008
MSR 0x000000C1	0x00000000	0x00000000
MSR 0x000000C2	0x00000000	0x00000000
MSR 0x000000C3	0x00000000	0x00000000
MSR 0x000000C4	0x00000000	0x00000000
MSR 0x00000186	0x00000000	0x00000000
MSR 0x00000187	0x00000000	0x00000000
MSR 0x000001AD	0x00000000	0x2A2B2C2C
MSR 0x00000194	0x00000000	0x000F0000
MSR 0x0000019A	0x00000000	0x00000000
MSR 0x000001A4	0x00000000	0x00000000
MSR 0x000001B1	0x00000000	0x88360800
MSR 0x000001FC	0x00000000	0x0000005F
MSR 0x00000606	0x00000000	0x000A0E03
MSR 0x00000601	0x00101414	0x00001F40
MSR 0x00000610	0x00429F40	0x001A9F40
MSR 0x00000611	0x00000000	0xB61020E4
MSR 0x00000639	0x00000000	0x4B8C7DEB
MSR 0x00000641	0x00000000	0x00000000
MSR 0x00000619	0x00000000	0x293721EA
MSR 0x00000614	0x00000000	0x000002C0
MSR 0x00000648	0x00000000	0x00000028
MSR 0x00000649	0x00000000	0x00000000
MSR 0x0000064A	0x00000000	0x00000000
MSR 0x0000064B	0x00000000	0x80000000
MSR 0x0000019C	0x00000000	0x88360000
MSR 0x000001A2	0x00000000	0x00641400
MSR 0x00000198	0x00002639	0x00002B00
MSR 0x00000199	0x00000000	0x0000FF00

CPU Thread 4

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

CPUID			
0x00000000	0x0000000D	0x756E6547	0x6C65746E
0x49656E69			
0x00000001	0x000306C3	0x04100800	0x7FFAFBBF
0xBFEBFBFF			
0x00000002	0x76036301	0x00F0B5FF	0x00000000
0x00C10000			
0x00000003	0x00000000	0x00000000	0x00000000

0x00000000			
0x00000004	0x1C004121	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004122	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004143	0x01C0003F	0x000001FF
0x00000000			
0x00000004	0x1C03C163	0x03C0003F	0x00001FFF
0x00000006			
0x00000005	0x00000040	0x00000040	0x00000003
0x00042120			
0x00000006	0x00000077	0x00000002	0x00000001
0x00000000			
0x00000007	0x00000000	0x000027AB	0x00000000
0x9C000000			
0x00000008	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000009	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000A	0x07300403	0x00000000	0x00000000
0x00000603			
0x0000000B	0x00000001	0x00000002	0x00000100
0x00000004			
0x0000000B	0x00000004	0x00000008	0x00000201
0x00000004			
0x0000000C	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000D	0x00000007	0x00000340	0x00000340
0x00000000			
0x0000000D	0x00000001	0x00000000	0x00000000
0x00000000			
0x0000000D	0x00000100	0x00000240	0x00000000
0x00000000			
0x80000000	0x80000008	0x00000000	0x00000000
0x00000000			
0x80000001	0x00000000	0x00000000	0x00000021
0x2C100800			
0x80000002	0x65746E49	0x2952286C	0x726F4320
0x4D542865			
0x80000003	0x37692029	0x3937342D	0x43204B30
0x40205550			
0x80000004	0x302E3420	0x7A484730	0x00000000
0x00000000			
0x80000005	0x00000000	0x00000000	0x00000000
0x00000000			
0x80000006	0x00000000	0x00000000	0x01006040
0x00000000			
0x80000007	0x00000000	0x00000000	0x00000000
0x00000100			
0x80000008	0x00003027	0x00000000	0x00000000
0x00000000			
MSR 0x0000001B	0x00000000	0xFEE00800	
MSR 0x0000003A	0x00000000	0x00000005	

MSR 0x00000048	0x00000000	0x00000000
MSR 0x000001A0	0x00000000	0x00850089
MSR 0x000000CE	0x00080838	0xF3012800
MSR 0x00000017	0x00040000	0x00000000
MSR 0x00000035	0x00000000	0x00040008
MSR 0x000000C1	0x00000000	0x00000000
MSR 0x000000C2	0x00000000	0x00000000
MSR 0x000000C3	0x00000000	0x00000000
MSR 0x000000C4	0x00000000	0x00000000
MSR 0x00000186	0x00000000	0x00000000
MSR 0x00000187	0x00000000	0x00000000
MSR 0x000001AD	0x00000000	0x2A2B2C2C
MSR 0x00000194	0x00000000	0x000F0000
MSR 0x0000019A	0x00000000	0x00000000
MSR 0x000001A4	0x00000000	0x00000000
MSR 0x000001B1	0x00000000	0x883B0800
MSR 0x000001FC	0x00000000	0x0000005F
MSR 0x00000606	0x00000000	0x000A0E03
MSR 0x00000601	0x00101414	0x00001F40
MSR 0x00000610	0x00429F40	0x001A9F40
MSR 0x00000611	0x00000000	0xB61063DE
MSR 0x00000639	0x00000000	0x4B8CB61B
MSR 0x00000641	0x00000000	0x00000000
MSR 0x00000619	0x00000000	0x2937250B
MSR 0x00000614	0x00000000	0x000002C0
MSR 0x00000648	0x00000000	0x00000028
MSR 0x00000649	0x00000000	0x00000000
MSR 0x0000064A	0x00000000	0x00000000
MSR 0x0000064B	0x00000000	0x80000000
MSR 0x0000019C	0x00000000	0x883C0000
MSR 0x000001A2	0x00000000	0x00641400
MSR 0x00000198	0x00002503	0x00002A00
MSR 0x00000199	0x00000000	0x0000FF00

CPU Thread 5

APIC ID

5

Topology

Processor ID 0, Core ID 2, Thread ID 1

CPUID

0x49656E69	0x00000000	0x0000000D	0x756E6547	0x6C65746E
0xBFEBFBFF	0x00000001	0x000306C3	0x05100800	0x7FFAFBBF
0x00C10000	0x00000002	0x76036301	0x00F0B5FF	0x00000000
0x00000000	0x00000003	0x00000000	0x00000000	0x00000000
0x00000000	0x00000004	0x1C004121	0x01C0003F	0x0000003F
0x00000000	0x00000004	0x1C004122	0x01C0003F	0x0000003F
0x00000000	0x00000004	0x1C004143	0x01C0003F	0x000001FF
0x00000000	0x00000004	0x1C03C163	0x03C0003F	0x00001FFF

0x00000006			
0x00000005	0x00000040	0x00000040	0x00000003
0x00042120			
0x00000006	0x00000077	0x00000002	0x00000001
0x00000000			
0x00000007	0x00000000	0x000027AB	0x00000000
0x9C000000			
0x00000008	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000009	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000A	0x07300403	0x00000000	0x00000000
0x00000603			
0x0000000B	0x00000001	0x00000002	0x00000100
0x00000005			
0x0000000B	0x00000004	0x00000008	0x00000201
0x00000005			
0x0000000C	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000D	0x00000007	0x00000340	0x00000340
0x00000000			
0x0000000D	0x00000001	0x00000000	0x00000000
0x00000000			
0x0000000D	0x00000100	0x00000240	0x00000000
0x00000000			
0x80000000	0x80000008	0x00000000	0x00000000
0x00000000			
0x80000001	0x00000000	0x00000000	0x00000021
0x2C100800			
0x80000002	0x65746E49	0x2952286C	0x726F4320
0x4D542865			
0x80000003	0x37692029	0x3937342D	0x43204B30
0x40205550			
0x80000004	0x302E3420	0x7A484730	0x00000000
0x00000000			
0x80000005	0x00000000	0x00000000	0x00000000
0x00000000			
0x80000006	0x00000000	0x00000000	0x01006040
0x00000000			
0x80000007	0x00000000	0x00000000	0x00000000
0x00000100			
0x80000008	0x00003027	0x00000000	0x00000000
0x00000000			

MSR 0x0000001B	0x00000000	0xFEE00800
MSR 0x0000003A	0x00000000	0x00000005
MSR 0x00000048	0x00000000	0x00000000
MSR 0x000001A0	0x00000000	0x00850089
MSR 0x000000CE	0x00080838	0xF3012800
MSR 0x00000017	0x00040000	0x00000000
MSR 0x00000035	0x00000000	0x00040008
MSR 0x000000C1	0x00000000	0x00000000
MSR 0x000000C2	0x00000000	0x00000000
MSR 0x000000C3	0x00000000	0x00000000

MSR 0x000000C4	0x00000000	0x00000000
MSR 0x00000186	0x00000000	0x00000000
MSR 0x00000187	0x00000000	0x00000000
MSR 0x000001AD	0x00000000	0x2A2B2C2C
MSR 0x00000194	0x00000000	0x000F0000
MSR 0x0000019A	0x00000000	0x00000000
MSR 0x000001A4	0x00000000	0x00000000
MSR 0x000001B1	0x00000000	0x883B0800
MSR 0x000001FC	0x00000000	0x0000005F
MSR 0x00000606	0x00000000	0x000A0E03
MSR 0x00000601	0x00101414	0x00001F40
MSR 0x00000610	0x00429F40	0x001A9F40
MSR 0x00000611	0x00000000	0xB610A394
MSR 0x00000639	0x00000000	0x4B8CEB3E
MSR 0x00000641	0x00000000	0x00000000
MSR 0x00000619	0x00000000	0x2937282B
MSR 0x00000614	0x00000000	0x000002C0
MSR 0x00000648	0x00000000	0x00000028
MSR 0x00000649	0x00000000	0x00000000
MSR 0x0000064A	0x00000000	0x00000000
MSR 0x0000064B	0x00000000	0x80000000
MSR 0x0000019C	0x00000000	0x883B0000
MSR 0x000001A2	0x00000000	0x00641400
MSR 0x00000198	0x00002649	0x00002B00
MSR 0x00000199	0x00000000	0x0000FF00

CPU Thread 6

APIC ID
Topology

6

Processor ID 0, Core ID 3, Thread ID 0

CPUID			
0x00000000	0x0000000D	0x756E6547	0x6C65746E
0x49656E69			
0x00000001	0x000306C3	0x06100800	0x7FFAFBBF
0xBFEBFBFF			
0x00000002	0x76036301	0x00F0B5FF	0x00000000
0x00C10000			
0x00000003	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000004	0x1C004121	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004122	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004143	0x01C0003F	0x000001FF
0x00000000			
0x00000004	0x1C03C163	0x03C0003F	0x00001FFF
0x00000006			
0x00000005	0x00000040	0x00000040	0x00000003
0x00042120			
0x00000006	0x00000077	0x00000002	0x00000001
0x00000000			
0x00000007	0x00000000	0x000027AB	0x00000000
0x9C000000			
0x00000008	0x00000000	0x00000000	0x00000000

0x00000000			
0x00000009	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000A	0x07300403	0x00000000	0x00000000
0x00000063			
0x0000000B	0x00000001	0x00000002	0x00000100
0x00000006			
0x0000000B	0x00000004	0x00000008	0x00000201
0x00000006			
0x0000000C	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000D	0x00000007	0x00000340	0x00000340
0x00000000			
0x0000000D	0x00000001	0x00000000	0x00000000
0x00000000			
0x0000000D	0x00000100	0x00000240	0x00000000
0x00000000			
0x80000000	0x80000008	0x00000000	0x00000000
0x00000000			
0x80000001	0x00000000	0x00000000	0x00000021
0x2C100800			
0x80000002	0x65746E49	0x2952286C	0x726F4320
0x4D542865			
0x80000003	0x37692029	0x3937342D	0x43204B30
0x40205550			
0x80000004	0x302E3420	0x7A484730	0x00000000
0x00000000			
0x80000005	0x00000000	0x00000000	0x00000000
0x00000000			
0x80000006	0x00000000	0x00000000	0x01006040
0x00000000			
0x80000007	0x00000000	0x00000000	0x00000000
0x00000100			
0x80000008	0x00003027	0x00000000	0x00000000
0x00000000			

MSR 0x0000001B	0x00000000	0xFEE00800
MSR 0x0000003A	0x00000000	0x00000005
MSR 0x00000048	0x00000000	0x00000000
MSR 0x000001A0	0x00000000	0x00850089
MSR 0x000000CE	0x00080838	0xF3012800
MSR 0x00000017	0x00040000	0x00000000
MSR 0x00000035	0x00000000	0x00040008
MSR 0x000000C1	0x00000000	0x00000000
MSR 0x000000C2	0x00000000	0x00000000
MSR 0x000000C3	0x00000000	0x00000000
MSR 0x000000C4	0x00000000	0x00000000
MSR 0x00000186	0x00000000	0x00000000
MSR 0x00000187	0x00000000	0x00000000
MSR 0x000001AD	0x00000000	0x2A2B2C2C
MSR 0x00000194	0x00000000	0x000F0000
MSR 0x0000019A	0x00000000	0x00000000
MSR 0x000001A4	0x00000000	0x00000000
MSR 0x000001B1	0x00000000	0x883C0800

MSR 0x000001FC	0x00000000	0x0000005F
MSR 0x00000606	0x00000000	0x000A0E03
MSR 0x00000601	0x00101414	0x00001F40
MSR 0x00000610	0x00429F40	0x001A9F40
MSR 0x00000611	0x00000000	0xB610DBF7
MSR 0x00000639	0x00000000	0x4B8D195E
MSR 0x00000641	0x00000000	0x00000000
MSR 0x00000619	0x00000000	0x29372B41
MSR 0x00000614	0x00000000	0x000002C0
MSR 0x00000648	0x00000000	0x00000028
MSR 0x00000649	0x00000000	0x00000000
MSR 0x0000064A	0x00000000	0x00000000
MSR 0x0000064B	0x00000000	0x80000000
MSR 0x0000019C	0x00000000	0x883E0000
MSR 0x000001A2	0x00000000	0x00641400
MSR 0x00000198	0x000027B3	0x00002C00
MSR 0x00000199	0x00000000	0x0000FF00

CPU Thread 7

APIC ID
Topology

7

Processor ID 0, Core ID 3, Thread ID 1

CPUID			
0x00000000	0x0000000D	0x756E6547	0x6C65746E
0x49656E69			
0x00000001	0x000306C3	0x07100800	0x7FFAFBBF
0xBFEBFBFF			
0x00000002	0x76036301	0x00F0B5FF	0x00000000
0x00C10000			
0x00000003	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000004	0x1C004121	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004122	0x01C0003F	0x0000003F
0x00000000			
0x00000004	0x1C004143	0x01C0003F	0x000001FF
0x00000000			
0x00000004	0x1C03C163	0x03C0003F	0x00001FFF
0x00000006			
0x00000005	0x00000040	0x00000040	0x00000003
0x00042120			
0x00000006	0x00000077	0x00000002	0x00000001
0x00000000			
0x00000007	0x00000000	0x000027AB	0x00000000
0x9C000000			
0x00000008	0x00000000	0x00000000	0x00000000
0x00000000			
0x00000009	0x00000000	0x00000000	0x00000000
0x00000000			
0x0000000A	0x07300403	0x00000000	0x00000000
0x00000603			
0x0000000B	0x00000001	0x00000002	0x00000100
0x00000007			
0x0000000B	0x00000004	0x00000008	0x00000201

MSR 0x00000614	0x00000000	0x000002C0
MSR 0x00000648	0x00000000	0x00000028
MSR 0x00000649	0x00000000	0x00000000
MSR 0x0000064A	0x00000000	0x00000000
MSR 0x0000064B	0x00000000	0x80000000
MSR 0x0000019C	0x00000000	0x883E0000
MSR 0x000001A2	0x00000000	0x00641400
MSR 0x00000198	0x00002645	0x00002B00
MSR 0x00000199	0x00000000	0x0000FF00

BIOS

UEFI	Yes
BIOS Vendor	American Megatrends Inc.
BIOS MSG	63-0100-000001-00101111-040215-Chipset
BIOS Date	04/02/15
Mainboard Vendor	000001

Chipset

Northbridge	Intel Haswell rev. 06
Southbridge	Intel Z97 rev. 00
Graphic Interface	PCI-Express
PCI-E Link Width	x4
PCI-E Max Link Width	x16
Memory Type	DDR3
Memory Size	16 GBytes
Channels	Single
Memory Frequency	666.3 MHz (1:5)
CAS# latency (CL)	9.0
RAS# to CAS# delay (tRCD)	9
RAS# Precharge (tRP)	9
Cycle Time (tRAS)	24
Row Refresh Cycle Time (tRFC)	200
Command Rate (CR)	2T
Uncore Frequency	3997.6 MHz
Host Bridge	0x0C00

Memory SPD

DIMM #	1
SMBus address	0x52
Memory type	DDR3
Module format	UDIMM
Module Manufacturer(ID)	Crucial Technology (7F7F7F7F7F9B0000000000)
Size	8192 MBytes
Max bandwidth	PC3-10700 (667 MHz)
Part number	BLS8G3D1339DS1S00.

Serial number	A60D7B5D
Number of banks	8
Nominal Voltage	1.50 Volts
EPP	no
XMP	no
AMP	no
JEDEC timings table	CL-tRCD-tRP-tRAS-tRC @ frequency
JEDEC #1	6.0-6-6-17-23 @ 457 MHz
JEDEC #2	7.0-7-7-20-27 @ 533 MHz
JEDEC #3	8.0-8-8-22-30 @ 609 MHz
JEDEC #4	9.0-9-9-24-33 @ 666 MHz

DIMM #	2
SMBus address	0x53
Memory type	DDR3
Module format	UDIMM
Module Manufacturer(ID)	Crucial Technology (7F7F7F7F7F9B0000000000)
Size	8192 MBytes
Max bandwidth	PC3-10700 (667 MHz)
Part number	BLS8G3D1339DS1S00.
Serial number	AB01A970
Number of banks	8
Nominal Voltage	1.50 Volts
EPP	no
XMP	no
AMP	no
JEDEC timings table	CL-tRCD-tRP-tRAS-tRC @ frequency
JEDEC #1	6.0-6-6-17-23 @ 457 MHz
JEDEC #2	7.0-7-7-20-27 @ 533 MHz
JEDEC #3	8.0-8-8-22-30 @ 609 MHz
JEDEC #4	9.0-9-9-24-33 @ 666 MHz

DIMM #	1
SPD registers	

	00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00	92 11 0B 02 04 21 00 09 03 52 01 08 0C 00 3C 00
10	69 78 69 30 69 11 20 89 60 09 3C 3C 00 F0 82 05
20	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
30	00 00 00 00 00 00 00 00 00 00 00 00 0F 11 01 01
40	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
50	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
60	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
70	00 00 00 00 00 85 9B 00 00 00 A6 0D 7B 5D 5B 50
80	42 4C 53 38 47 33 44 31 33 33 39 44 53 31 53 30
90	30 2E 01 00 80 2C 42 5A 41 47 38 57 31 30 30 31
A0	FF 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
B0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
C0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
D0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
E0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
F0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

DIMM #	2
SPD registers	

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	92	11	0B	02	04	21	00	09	03	52	01	08	0C	00	3C	00
10	69	78	69	30	69	11	20	89	60	09	3C	3C	00	F0	82	05
20	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
30	00	00	00	00	00	00	00	00	00	00	00	00	0F	11	01	01
40	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
50	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
60	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70	00	00	00	00	00	85	9B	00	00	00	AB	01	A9	70	5B	50
80	42	4C	53	38	47	33	44	31	33	33	39	44	53	31	53	30
90	30	2E	01	00	80	2C	42	5A	41	47	38	57	31	30	30	31
A0	FF	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

Monitoring

Mainboard Model Z97 Killer (0x0000034D - 0x16790E30)

LPCIO

LPCIO Vendor	Nuvoton
LPCIO Model	NCT6791
LPCIO Vendor ID	0x5CA3
LPCIO Chip ID	0xC8
LPCIO Revision ID	0x3
Config Mode I/O address	0x2E
Config Mode LDN	0xB
Config Mode registers	

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	FF	FF	00	FF	FF	FF	FF	0B	FF	FF	FF	FF	FF	FF	FF	FF
10	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	30	F0	10	00	FF	FF
20	C8	03	FF	00	FC	00	00	00	00	FF	40	20	00	02	00	01
30	E1	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
40	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
50	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
60	02	90	00	00	00	00	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
70	00	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF

Register space LPC, base address = 0x0290

Hardware Monitors

Hardware monitor	Nuvoton NCT6791
Voltage 0	0.91 Volts [0x72] (CPU VCORE)
Voltage 1	1.71 Volts [0xD6] (VIN1)
Voltage 2	3.42 Volts [0xD6] (AVCC)

Voltage 3	3.42 Volts [0xD6] (3VCC)
Voltage 4	1.02 Volts [0x7F] (VIN4)
Voltage 5	1.01 Volts [0x7E] (VIN5)
Voltage 6	0.78 Volts [0x62] (VIN6)
Voltage 7	0.00 Volts [0x0] (VIN7)
Voltage 8	0.91 Volts [0x72] (VIN8)
Voltage 9	0.82 Volts [0x67] (VIN9)
Voltage 10	1.02 Volts [0x7F] (VIN10)
Voltage 11	1.71 Volts [0xD6] (VIN11)
Voltage 12	0.86 Volts [0x6B] (VIN12)
Voltage 13	1.04 Volts [0x82] (VIN13)
Voltage 14	1.00 Volts [0x7D] (VIN14)
Voltage 15	1.71 Volts [0xD6] (VIN15)
Temperature 0	31 degC (87 degF) [0x1F] (SYSTIN)
Temperature 1	33 degC (91 degF) [0x42] (CPUTIN)
Temperature 3	32 degC (89 degF) [0x20] (TMPIN3)
Temperature 5	72 degC (161 degF) [0x48] (TMPIN5)
Temperature 6	31 degC (87 degF) [0x1F] (TMPIN6)
Temperature 8	26 degC (78 degF) [0x1A] (TMPIN8)
Fan 1	821 RPM [0x335] (CPUFANIN)
Fan 4	1320 RPM [0x528] (AUXFANIN2)

Hardware registers

Register space

LPC, base address = 0x0290

bank 0

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	03	A5	03	A5	00	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
10	03	A5	03	A5	03	A5	03	FF	40	7E	00	7E	99	68	1A	00
20	71	D6	D6	D6	7F	7E	6D	1F	FF	FF	FF	DA	00	00	00	00
30	00	00	00	00	00	00	00	00	00	00	00	FF	FF	FF	FF	FF
40	03	1E	07	FF	DF	00	3F	FF	2D	FF	FF	10	08	55	00	A3
50	05	FF	FF	FF	FF	FF	FF	FF	C1	FF	FF	FF	FF	FF	00	00
60	00	00	FF	FF	FF	01	00	FF	FF	FF	FF	FF	FF	FF	FF	FF
70	00	0A	00	23	80	23	80	23	80	23	80	23	80	FF	FF	FF
80	FF	7F	3F	BF	FF	05	05	05	00	00	00	00	00	00	00	00
90	0A	00	00	00	00	FD	FD	FD	0A	95	EF	80	FF	40	46	C4
A0	0E	FF	00	00	FF	00	00	FF	00	00	80	66	06	06	01	00
B0	00	00	00	00	00	00	2E	00	04	00	00	05	2E	80	04	00
C0	FF	FF	FF	FF	FF	FF	FF	FF	FF	10	04	05	FF	FF	FF	FF
D0	05	05	05	05	00	00	00	00	00	00	00	00	FD	FD	FD	FD
E0	55	80	00	00	00	FF	FF	FF	FF	FF	00	00	00	00	00	00
F0	00	00	00	00	00	00	00	00	00	00	00	00	96	FF	FF	FF

bank 4

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
10	00	00	00	00	00	00	00	00	00	00	00	FF	FF	FF	FF	FF
20	FF	FF	FF	96	64	96	64	E1	96	00	FF	FF	FF	FF	FF	FF
30	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
40	FF	FF	01	04	FF	FF	FF	FF	FF	FF	00	00	00	00	04	FF
50	01	73	FF	FF	00	00	00	FF	FF	1E	13	31	09	00	FF	FF
60	FF	01	00	00	00	00	00	FF	FF	FF	FF	FF	FF	FF	FF	FF
70	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
80	71	D6	D6	D6	7F	7E	6D	D9	00	7E	00	7E	99	68	1A	00
90	1F	49	14	80	1A	67	00	2E	80	24	24	24	24	24	1F	14
A0	FF	1F	FF	FF	FF	FF	A5	A5	A5	A5	A5	00	00	00	00	00

B0	FF	1F	32	06	FF	1F	FF	1F	1F	1F	FF	1F	00	00	FF	FF
C0	00	00	03	48	00	00	00	00	05	27	00	00	FF	FF	FF	FF
D0	00	00	00	00	00	00	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
E0	A5	A5	A5	A5	A5	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
F0	24	C0	00	00	24	00	00	00	00	00	00	00	00	00	00	FF

Hardware monitor D3D

Hardware monitor	NVIDIA NVAPI
Voltage 0	0.64 Volts [0x283] (GPU)
Power 0	10.18 pc (GPU)
Temperature 0	42 degC (107 degF) [0x2A] (GPU)
Fan 0	0 RPM [0x0] (GPU #0)
Clock Speed 0	300.00 MHz [0x12C] (Graphics)
Clock Speed 1	405.00 MHz [0x195] (Memory)
Clock Speed 2	n.a. (Processor)

PCI Devices

Register space PCI Express, base address = 0xF0000000

Description	Host Bridge
Location	bus 0 (0x00), device 0 (0x00), function 0 (0x00)
Common header	
Vendor ID	0x8086
Model ID	0x0C00
Revision ID	0x06
PI	0x00
SubClass	0x00
BaseClass	0x06
Cache Line	0x00
Latency	0x00
Header	0x00
PCI header	
Subvendor ID	0x1849
Subsystem ID	0x0C00
Int. Line	0x00
Int. Pin	0x00
PCI capability	
Caps class	Vendor Dependant
Caps offset	0xE0
PCI registers	

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	86	80	00	0C	06	00	90	20	06	00	00	06	00	00	00	00
10	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
20	00	00	00	00	00	00	00	00	00	00	00	00	49	18	00	0C
30	00	00	00	00	E0	00	00	00	00	00	00	00	00	00	00	00
40	01	90	D1	FE	00	00	00	00	01	00	D1	FE	00	00	00	00
50	03	00	00	00	01	00	00	00	00	00	00	00	01	00	00	CF
60	03	00	00	F0	00	00	00	00	01	80	D1	FE	00	00	00	00
70	00	00	00	FF	03	00	00	00	00	0C	00	FF	7F	00	00	00
80	10	11	11	00	00	00	11	00	1A	00	00	00	00	00	00	00

90	01 00 00 FF 03 00 00 00 01 00 F0 2E 04 00 00 00
A0	01 00 00 00 04 00 00 00 01 00 00 2F 04 00 00 00
B0	01 00 00 D0 01 00 00 D0 01 00 00 CF 01 00 00 D0
C0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
D0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
E0	09 00 0C 01 6D A0 00 62 D0 00 44 36 00 00 00 00
F0	00 00 00 00 C8 0F 03 00 00 00 00 00 00 00 00 00

Description	USB Controller
Location (0x00)	bus 0 (0x00), device 20 (0x14), function 0

Common header	
Vendor ID	0x8086
Model ID	0x8CB1
Revision ID	0x00
PI	0x30
SubClass	0x03
BaseClass	0x0C
Cache Line	0x00
Latency	0x00
Header	0x00

PCI header	
Address 0 (memory)	0xEF200000
Subvendor ID	0x1849
Subsystem ID	0x8CB1
Int. Line	0x00
Int. Pin	0x01

PCI capability	
Caps class	Power Management
Caps offset	0x70
Caps version	1.1

PCI capability	
Caps class	Message Signalled Interrupts
Caps offset	0x80

PCI registers	
	00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00	86 80 B1 8C 06 04 90 02 00 30 03 0C 00 00 00 00
10	04 00 20 EF 00 00 00 00 00 00 00 00 00 00 00 00
20	00 00 00 00 00 00 00 00 00 00 00 00 49 18 B1 8C
30	00 00 00 00 70 00 00 00 00 00 00 00 00 00 01 00
40	FD 01 36 80 89 C6 0F 80 00 00 00 00 00 00 00 00
50	9F 6E 88 07 00 00 00 00 00 00 00 00 00 00 00 00
60	30 20 00 00 00 00 00 00 00 00 00 00 00 00 00 00
70	01 80 C2 C1 08 00 00 00 00 00 00 00 00 00 00 00
80	05 00 87 00 0C F0 EF FE 00 00 00 00 81 49 00 00
90	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
A0	40 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00
B0	0F 00 01 00 00 00 00 00 00 00 00 00 00 00 00 00
C0	03 0C 30 C0 03 0C 30 00 03 0C 30 00 00 00 00 00
D0	FF 1F 00 00 FF 1F 00 00 3F 00 00 00 3F 00 00 00
E0	A0 00 00 00 00 00 00 00 00 00 00 00 D8 D8 D8 08
F0	00 00 00 00 00 00 00 00 B1 0F 00 08 00 00 00 00

Description	Communication Device
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Location bus 0 (0x00), device 22 (0x16), function 0
(0x00)

Common header

Vendor ID	0x8086
Model ID	0x8CBA
Revision ID	0x00
PI	0x00
SubClass	0x80
BaseClass	0x07
Cache Line	0x00
Latency	0x00
Header	0x80

PCI header

Address 0 (memory)	0xEF219000
Subvendor ID	0x1849
Subsystem ID	0x8CBA
Int. Line	0x00
Int. Pin	0x01

PCI capability

Caps class	Power Management
Caps offset	0x50
Caps version	1.2

PCI capability

Caps class	Message Signalled Interrupts
Caps offset	0x8C

PCI registers

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	86	80	BA	8C	06	04	10	00	00	00	80	07	00	00	80	00
10	04	90	21	EF	00	00	00	00	00	00	00	00	00	00	00	00
20	00	00	00	00	00	00	00	00	00	00	00	00	49	18	BA	8C
30	00	00	00	00	50	00	00	00	00	00	00	00	00	01	00	00
40	45	02	00	1E	10	00	01	80	06	23	00	66	F0	3F	00	10
50	01	8C	03	C8	08	00	00	00	00	00	00	00	00	00	00	00
60	00	02	00	00	00	40	00	00	00	00	00	00	00	00	00	40
70	00	00	00	00	00	00	00	E0	00	00	00	00	00	00	00	00
80	00	00	00	00	00	00	00	00	00	00	00	00	05	00	81	00
90	0C	F0	EF	FE	00	00	00	00	71	49	00	00	00	00	00	00
A0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
B0	00	00	00	00	00	00	00	00	00	00	00	00	02	00	00	C0
C0	EA	69	1F	AD	E1	AC	D7	70	16	45	9C	4D	9F	32	B7	B3
D0	40	4F	49	69	ED	67	4D	B8	B8	64	24	9C	53	1D	B8	A7
E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

Description USB 2.0 Controller (EHCI)

Location bus 0 (0x00), device 26 (0x1A), function 0
(0x00)

Common header

Vendor ID	0x8086
Model ID	0x8CAD
Revision ID	0x00
PI	0x20
SubClass	0x03
BaseClass	0x0C

Cache Line	0x00
Latency	0x00
Header	0x00
PCI header	
Address 0 (memory)	0xEF217000
Subvendor ID	0x1849
Subsystem ID	0x8CAD
Int. Line	0x10
Int. Pin	0x01
PCI capability	
Caps class	Power Management
Caps offset	0x50
Caps version	1.1
PCI capability	
Caps class	Debug Port
Caps offset	0x58
PCI capability	
Caps class	0x13
Caps offset	0x98

PCI registers		00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00		86	80	AD	8C	06	00	90	02	00	20	03	0C	00	00	00	00
10		00	70	21	EF	00	00	00	00	00	00	00	00	00	00	00	00
20		00	00	00	00	00	00	00	00	00	00	00	00	49	18	AD	8C
30		00	00	00	00	50	00	00	00	00	00	00	00	10	01	00	00
40		00	00	00	00	F3	02	DF	0D	00	00	00	00	00	00	00	00
50		01	58	C2	C9	00	00	00	00	0A	98	A0	20	00	00	00	00
60		20	20	FF	07	00	00	00	00	01	00	00	01	00	20	00	00
70		00	00	DF	3F	03	0C	30	00	4F	01	00	00	8C	40	00	00
80		00	00	80	00	11	88	0C	93	70	0D	00	24	01	04	02	00
90		00	00	00	00	00	00	00	00	13	00	06	03	00	00	00	00
A0		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
B0		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
C0		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
D0		00	00	00	00	00	AA	FF	00	00	00	FF	FF	27	00	00	00
E0		00	00	00	00	FF	FF	FF	FF	FF	FF	FF	FF	78	7F	F7	FB
F0		00	00	00	00	88	85	80	00	B1	0F	00	08	08	17	1A	20

Description	Multimedia device
Location	bus 0 (0x00), device 27 (0x1B), function 0
(0x00)	
Common header	
Vendor ID	0x8086
Model ID	0x8CA0
Revision ID	0x00
PI	0x00
SubClass	0x03
BaseClass	0x04
Cache Line	0x10
Latency	0x00
Header	0x00
PCI header	
Address 0 (memory)	0xEF210000
Subvendor ID	0x1849

Subsystem ID	0x1151
Int. Line	0x16
Int. Pin	0x01
PCI capability	
Caps class	Power Management
Caps offset	0x50
Caps version	1.1
PCI capability	
Caps class	Message Signalled Interrupts
Caps offset	0x60
PCI capability	
Caps class	PCI Express
Caps offset	0x70
Device type	Root Complex Integrated Endpoint Device
Port	0
Version	1.0
Link width	0x (max 0x)
Extended capabilities	
Caps class	Virtual Channel
Caps offset	0x100

PCI registers

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	86	80	A0	8C	06	00	18	00	00	00	03	04	10	00	00	00
10	04	00	21	EF	00	00	00	00	00	00	00	00	00	00	00	00
20	00	00	00	00	00	00	00	00	00	00	00	00	49	18	51	11
30	00	00	00	00	50	00	00	00	00	00	00	00	16	01	00	00
40	03	00	00	17	00	00	00	00	00	00	00	00	00	80	00	00
50	01	60	42	C8	00	00	00	00	00	00	00	00	00	00	00	00
60	05	70	80	00	00	00	00	00	00	00	00	00	00	00	00	00
70	10	00	91	00	00	00	00	10	00	08	10	00	00	00	00	00
80	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
90	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
A0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
C0	00	04	02	01	00	60	00	00	00	0C	85	82	10	00	33	02
D0	00	0C	85	02	10	00	33	02	00	00	00	00	00	00	00	00
E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
F0	00	00	00	00	00	00	00	00	B1	0F	00	08	00	00	00	00
100	02	00	01	00	01	00	00	00	00	00	00	00	00	00	00	00
110	00	00	00	00	01	00	00	80	00	00	00	00	00	00	00	00
120	04	00	00	82	00	00	00	00	00	00	00	00	00	00	00	00
130	05	00	01	00	00	01	00	0F	00	00	00	00	00	00	00	00

Description	PCI to PCI Bridge
Location (0x00)	bus 0 (0x00), device 28 (0x1C), function 0
Common header	
Vendor ID	0x8086
Model ID	0x8C90
Revision ID	0xD0
PI	0x00
SubClass	0x04
BaseClass	0x06
Cache Line	0x10

Latency	0x00
Header	0x81
PCI header	
Primary bus	0x00
Secondary bus	0x01
Int. Line	0x0B
Int. Pin	0x01
PCI capability	
Caps class	PCI Express
Caps offset	0x40
Device type	Root Port of PCI-E Root Complex
Port	1
Version	2.0
Physical slot	Integrated device
Link width	0x (max 2x)
PCI capability	
Caps class	Message Signalled Interrupts
Caps offset	0x80
PCI capability	
Caps class	Subsystem Vendor
Caps offset	0x90
SubVendor ID	0x1849
SubSystem ID	0x8C90
PCI capability	
Caps class	Power Management
Caps offset	0xA0
Caps version	1.2

PCI registers	00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00	86 80 90 8C 04 04 10 00 D0 00 04 06 10 00 81 00
10	00 00 00 00 00 00 00 00 00 01 01 00 F0 00 00 20
20	F0 FF 00 00 F1 FF 01 00 00 00 00 00 00 00 00 00
30	00 00 00 00 40 00 00 00 00 00 00 00 0B 01 00 00
40	10 80 42 00 00 80 00 00 00 00 10 00 22 4C 31 01
50	00 00 01 10 60 00 04 00 00 00 40 00 00 00 00 00
60	00 00 00 00 17 08 08 00 00 04 00 00 00 00 00 00
70	02 00 01 00 00 00 00 00 00 00 00 00 00 00 00 00
80	05 90 00 00 00 00 00 00 00 00 00 00 00 00 00 00
90	0D A0 00 00 49 18 90 8C 00 00 00 00 00 00 00 00
A0	01 00 03 C8 00 00 00 00 00 00 00 00 00 00 00 00
B0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
C0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
D0	00 00 00 01 00 08 00 00 02 00 11 09 00 00 00 00
E0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
F0	50 00 00 00 80 F5 00 00 B1 0F 00 08 01 68 F7 41
100	00 00 00 00 00 00 00 00 00 00 00 00 11 00 06 00
110	00 00 00 00 00 20 00 00 00 00 00 00 00 00 00 00
120	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
130	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

Description	PCI to PCI Bridge
Location	bus 0 (0x00), device 28 (0x1C), function 2
(0x02)	
Common header	

Vendor ID	0x8086
Model ID	0x244E
Revision ID	0xD0
PI	0x01
SubClass	0x04
BaseClass	0x06
Cache Line	0x10
Latency	0x00
Header	0x81

PCI header

Primary bus	0x00
Secondary bus	0x02
Int. Line	0xFF
Int. Pin	0x00

PCI capability

Caps class	PCI Express
Caps offset	0x40
Device type	Root Port of PCI-E Root Complex
Port	3
Version	2.0
Physical slot	#0
Presence detect	yes
Link width	1x (max 1x)

PCI capability

Caps class	Message Signalled Interrupts
Caps offset	0x80

PCI capability

Caps class	Subsystem Vendor
Caps offset	0x90
SubVendor ID	0x1849
SubSystem ID	0x244E

PCI capability

Caps class	Power Management
Caps offset	0xA0
Caps version	1.2

PCI registers

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	86	80	4E	24	07	00	10	00	D0	01	04	06	10	00	81	00
10	00	00	00	00	00	00	00	00	00	02	03	20	F0	00	80	22
20	F0	FF	00	00	F1	FF	01	00	00	00	00	00	00	00	00	00
30	00	00	00	00	40	00	00	00	00	00	00	00	FF	00	00	00
40	10	80	42	01	00	80	00	00	00	00	10	00	12	4C	32	03
50	00	00	11	70	00	B2	14	00	00	00	40	00	00	00	00	00
60	00	00	00	00	17	08	00	00	00	04	00	00	00	00	00	00
70	02	00	01	00	00	00	00	00	00	00	00	00	00	00	00	00
80	05	90	00	00	00	00	00	00	00	00	00	00	00	00	00	00
90	0D	A0	00	00	49	18	4E	24	00	00	00	00	00	00	00	00
A0	01	00	03	C8	00	00	00	00	00	00	00	00	00	00	00	00
B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
D0	00	00	00	01	42	18	00	00	08	80	11	8B	00	00	00	00
E0	00	03	00	00	00	00	00	00	03	00	00	00	07	00	00	00
F0	50	00	00	00	40	00	00	0C	B1	0F	00	08	00	28	00	03
100	00	00	00	00	00	00	00	00	00	00	00	11	00	06	00	00

110	00 00 00 00 00 20 00 00 00 00 00 00 00 00 00 00
120	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
130	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

Description PCI to PCI Bridge
Location bus 0 (0x00), device 28 (0x1C), function 3
(0x03)

Common header

Vendor ID	0x8086
Model ID	0x8C96
Revision ID	0xD0
PI	0x00
SubClass	0x04
BaseClass	0x06
Cache Line	0x10
Latency	0x00
Header	0x81

PCI header

Primary bus	0x00
Secondary bus	0x04
Int. Line	0x0A
Int. Pin	0x04

PCI capability

Caps class	PCI Express
Caps offset	0x40
Device type	Root Port of PCI-E Root Complex
Port	4
Version	2.0
Physical slot	#0
Presence detect	yes
Link width	1x (max 1x)

PCI capability

Caps class	Message Signalled Interrupts
Caps offset	0x80

PCI capability

Caps class	Subsystem Vendor
Caps offset	0x90
SubVendor ID	0x1849
SubSystem ID	0x8C96

PCI capability

Caps class	Power Management
Caps offset	0xA0
Caps version	1.2

PCI registers

	00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00	86 80 96 8C 07 04 10 00 D0 00 04 06 10 00 81 00
10	00 00 00 00 00 00 00 00 00 04 04 00 E0 E0 00 00
20	10 EF 10 EF F1 FF 01 00 00 00 00 00 00 00 00 00
30	00 00 00 00 40 00 00 00 00 00 00 00 0A 04 00 00
40	10 80 42 01 00 80 00 00 00 00 10 00 12 3C 32 04
50	40 00 11 70 00 B2 1C 00 00 00 40 00 00 00 00 00
60	00 00 00 00 17 08 00 00 00 04 00 00 00 00 00 00
70	02 00 01 00 00 00 00 00 00 00 00 00 00 00 00 00
80	05 90 00 00 00 00 00 00 00 00 00 00 00 00 00 00

90	0D A0 00 00 49 18 96 8C 00 00 00 00 00 00 00 00
A0	01 00 03 C8 00 00 00 00 00 00 00 00 00 00 00 00
B0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
C0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
D0	00 00 00 01 42 18 00 00 08 80 11 8B 00 00 00 00
E0	00 03 00 00 00 00 00 00 03 00 00 00 00 00 00 00
F0	50 00 00 00 40 00 00 0C B1 0F 00 08 00 28 00 04
100	00 00 00 00 00 00 00 00 00 00 00 00 11 00 06 00
110	00 00 00 00 00 20 00 00 00 00 00 00 00 00 00 00
120	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
130	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

Description	PCI to PCI Bridge
Location	bus 0 (0x00), device 28 (0x1C), function 4
(0x04)	
Common header	
Vendor ID	0x8086
Model ID	0x8C98
Revision ID	0xD0
PI	0x00
SubClass	0x04
BaseClass	0x06
Cache Line	0x20
Latency	0x00
Header	0x81
PCI header	
Primary bus	0x00
Secondary bus	0x05
Int. Line	0x0B
Int. Pin	0x01
PCI capability	
Caps class	PCI Express
Caps offset	0x40
Device type	Root Port of PCI-E Root Complex
Port	5
Version	2.0
Physical slot	#0
Presence detect	yes
Link width	4x (max 4x)
PCI capability	
Caps class	Message Signalled Interrupts
Caps offset	0x80
PCI capability	
Caps class	Subsystem Vendor
Caps offset	0x90
SubVendor ID	0x1849
SubSystem ID	0x8C98
PCI capability	
Caps class	Power Management
Caps offset	0xA0
Caps version	1.2
PCI registers	
	00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00	86 80 98 8C 07 04 10 00 D0 00 04 06 20 00 81 00

10	00 00 00 00 00 00 00 00 00 05 05 00 D0 D0 00 20
20	00 EE 00 EF 01 D0 01 E2 00 00 00 00 00 00 00
30	00 00 00 00 40 00 00 00 00 00 00 00 0B 01 18 00
40	10 80 42 01 00 80 00 00 00 00 10 00 42 3C 32 05
50	40 00 41 F0 00 FD 24 00 00 00 40 00 00 00 00 00
60	00 00 00 00 17 08 00 00 00 04 00 00 00 00 00 00
70	02 00 01 00 00 00 00 00 00 00 00 00 00 00 00 00
80	05 90 00 00 00 00 00 00 00 00 00 00 00 00 00 00
90	0D A0 00 00 49 18 98 8C 00 00 00 00 00 00 00 00
A0	01 00 03 C8 00 00 00 00 00 00 00 00 00 00 00 00
B0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
C0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
D0	00 00 00 01 42 18 00 00 08 80 11 8B 00 00 00 00
E0	00 3F 00 00 FA 88 FA 88 13 00 00 00 00 00 00 00
F0	50 00 00 00 40 00 00 00 B1 0F 00 08 00 E8 00 05
100	00 00 00 00 00 00 00 00 00 00 00 00 11 00 06 00
110	00 00 00 00 00 20 00 00 00 00 00 00 00 00 00 00
120	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
130	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

Description	USB 2.0 Controller (EHCI)
Location	bus 0 (0x00), device 29 (0x1D), function 0
(0x00)	

Common header

Vendor ID	0x8086
Model ID	0x8CA6
Revision ID	0x00
PI	0x20
SubClass	0x03
BaseClass	0x0C
Cache Line	0x00
Latency	0x00
Header	0x00

PCI header

Address 0 (memory)	0xEF216000
Subvendor ID	0x1849
Subsystem ID	0x8CA6
Int. Line	0x17
Int. Pin	0x01

PCI capability

Caps class	Power Management
Caps offset	0x50
Caps version	1.1

PCI capability

Caps class	Debug Port
Caps offset	0x58

PCI capability

Caps class	0x13
Caps offset	0x98

PCI registers

	00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00	86 80 A6 8C 06 00 90 02 00 20 03 0C 00 00 00 00
10	00 60 21 EF 00 00 00 00 00 00 00 00 00 00 00 00
20	00 00 00 00 00 00 00 00 00 00 00 00 49 18 A6 8C

30	00	00	00	00	50	00	00	00	00	00	00	00	17	01	00	00
40	00	00	00	00	DB	05	CB	22	00	00	00	00	00	00	00	00
50	01	58	C2	C9	00	00	00	00	0A	98	A0	20	00	00	00	00
60	20	20	FF	07	00	00	00	00	01	00	00	01	00	20	00	00
70	00	00	DF	3F	03	0C	30	C0	4F	01	00	00	8C	40	00	00
80	00	00	80	00	11	88	0C	93	70	0D	00	24	01	04	02	00
90	00	00	00	00	00	00	00	00	13	00	06	03	00	00	00	00
A0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
D0	00	00	00	00	00	AA	FF	00	00	00	63	C9	27	00	00	00
E0	00	00	00	00	FF	FF	FF	FF	FF	FF	FF	FF	88	2B	8F	BB
F0	00	00	00	00	88	85	80	00	B1	0F	00	08	08	17	1A	20

Description	PCI to ISA Bridge
Location	bus 0 (0x00), device 31 (0x1F), function 0
(0x00)	

Common header

Vendor ID	0x8086
Model ID	0x8CC4
Revision ID	0x00
PI	0x00
SubClass	0x01
BaseClass	0x06
Cache Line	0x00
Latency	0x00
Header	0x80

PCI header

Subvendor ID	0x1849
Subsystem ID	0x8CC4
Int. Line	0x00
Int. Pin	0x00

PCI capability

Caps class	Vendor Dependant
Caps offset	0xE0

PCI registers

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	86	80	C4	8C	07	00	10	02	00	00	01	06	00	00	80	00
10	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
20	00	00	00	00	00	00	00	00	00	00	00	00	49	18	C4	8C
30	00	00	00	00	E0	00	00	00	00	00	00	00	00	00	00	00
40	01	18	00	00	80	00	00	00	01	1C	00	00	10	00	00	00
50	F8	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
60	8B	8B	83	8A	90	00	00	00	80	80	85	8A	F8	F0	00	00
70	78	F0	78	F0	78	F0	78	F0	78	F0	78	F0	78	F0	78	F0
80	00	00	00	14	91	02	0C	00	00	00	00	00	00	00	00	00
90	00	00	00	00	00	0F	00	00	00	00	00	00	00	00	00	00
A0	08	5E	A0	18	49	38	06	00	00	46	00	00	00	00	01	80
B0	00	00	00	00	00	00	00	00	00	00	80	08	00	00	00	00
C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
D0	33	22	11	00	67	45	00	00	CF	FF	00	00	08	00	00	00
E0	09	00	0C	10	00	00	00	00	01	E8	00	90	00	00	00	00
F0	01	C0	D1	FE	00	00	00	00	B1	0F	00	08	00	00	00	00

Description	Serial ATA Controller
Location (0x02)	bus 0 (0x00), device 31 (0x1F), function 2

Common header

Vendor ID	0x8086
Model ID	0x8C82
Revision ID	0x00
PI	0x01
SubClass	0x06
BaseClass	0x01
Cache Line	0x00
Latency	0x00
Header	0x00

PCI header

Address 0 (port)	0x0000F070
Address 1 (port)	0x0000F060
Address 2 (port)	0x0000F050
Address 3 (port)	0x0000F040
Address 4 (port)	0x0000F020
Address 5 (memory)	0xEF215000
Subvendor ID	0x1849
Subsystem ID	0x8C82
Int. Line	0x00
Int. Pin	0x02

PCI capability

Caps class	Message Signalled Interrupts
Caps offset	0x80

PCI capability

Caps class	Power Management
Caps offset	0x70
Caps version	1.2

PCI capability

Caps class	0x12
Caps offset	0xA8

PCI registers

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	86	80	82	8C	07	04	B0	02	00	01	06	01	00	00	00	00
10	71	F0	00	00	61	F0	00	00	51	F0	00	00	41	F0	00	00
20	21	F0	00	00	00	50	21	EF	00	00	00	00	49	18	82	8C
30	00	00	00	00	80	00	00	00	00	00	00	00	00	02	00	00
40	00	80	00	80	00	00	00	00	00	00	00	00	00	00	00	00
50	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
60	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70	01	A8	03	40	08	00	00	00	00	00	00	00	00	00	00	00
80	05	70	01	00	0C	F0	EF	FE	60	49	00	00	00	00	00	00
90	60	0C	33	B3	83	01	00	0C	20	02	5C	20	20	04	00	80
A0	A8	00	00	00	39	00	39	00	12	00	10	00	48	00	00	00
B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
F0	00	00	00	00	00	00	00	00	B1	0F	00	08	00	00	00	00

Description	SMBus Controller
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Location bus 0 (0x00), device 31 (0x1F), function 3
(0x03)

Common header

Vendor ID	0x8086
Model ID	0x8CA2
Revision ID	0x00
PI	0x00
SubClass	0x05
BaseClass	0x0C
Cache Line	0x00
Latency	0x00
Header	0x00

PCI header

Address 0 (memory)	0xEF214000
Address 4 (port)	0x0000F000
Subvendor ID	0x1849
Subsystem ID	0x8CA2
Int. Line	0x03
Int. Pin	0x03

PCI registers

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	86	80	A2	8C	03	00	80	02	00	00	05	0C	00	00	00	00
10	04	40	21	EF	00	00	00	00	00	00	00	00	00	00	00	00
20	01	F0	00	00	00	00	00	00	00	00	00	00	49	18	A2	8C
30	00	00	00	00	00	00	00	00	00	00	00	00	03	03	00	00
40	11	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
50	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
60	03	04	04	00	00	00	08	08	00	00	00	00	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
80	04	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
90	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
A0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
F0	00	00	00	00	00	00	00	00	B1	0F	00	08	00	00	00	00

Description PCI to PCI Bridge

Location bus 2 (0x02), device 0 (0x00), function 0 (0x00)

Common header

Vendor ID	0x1B21
Model ID	0x1080
Revision ID	0x03
PI	0x01
SubClass	0x04
BaseClass	0x06
Cache Line	0x10
Latency	0x00
Header	0x01

PCI header

Primary bus	0x02
Secondary bus	0x03
Int. Line	0x03

Int. Pin	0x01
PCI capability	
Caps class	Subsystem Vendor
Caps offset	0xC0
SubVendor ID	0x1849
SubSystem ID	0x1080

PCI registers		00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00		21	1B	80	10	07	04	10	00	03	01	04	06	10	00	01	00
10		00	00	00	00	00	00	00	00	02	03	03	20	F1	01	20	20
20		F0	FF	00	00	F1	FF	01	00	00	00	00	00	00	00	00	00
30		00	00	00	00	C0	00	00	00	00	00	00	00	03	01	00	00
40		60	70	00	00	00	07	00	00	00	00	00	00	A7	27	00	00
50		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
60		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
80		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
90		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
A0		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
B0		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
C0		0D	00	00	00	49	18	80	10	00	00	00	00	00	00	00	00
D0		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
E0		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
F0		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

Description	Ethernet Controller
Location	bus 4 (0x04), device 0 (0x00), function 0 (0x00)
Common header	
Vendor ID	0x1969
Model ID	0xE091
Revision ID	0x10
PI	0x00
SubClass	0x00
BaseClass	0x02
Cache Line	0x10
Latency	0x00
Header	0x00
PCI header	
Address 0 (memory)	0xEF100000
Address 2 (port)	0x0000E000
Subvendor ID	0x1849
Subsystem ID	0xE091
Int. Line	0x13
Int. Pin	0x01
PCI capability	
Caps class	Power Management
Caps offset	0x40
Caps version	1.2
PCI capability	
Caps class	PCI Express
Caps offset	0x58
Device type	PCI-E Endpoint Device
Port	0
Version	1.0

Link width	1x (max 1x)
PCI capability	
Caps class	Message Signalled Interrupts
Caps offset	0xC0
PCI capability	
Caps class	MSI-X
Caps offset	0xD8
Extended capabilities	
Caps class	Advanced Error Reporting
Caps offset	0x100
Caps class	Device Serial Number
Caps offset	0x180

PCI registers

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	69	19	91	E0	07	00	10	00	10	00	00	02	10	00	00	00
10	04	00	10	EF	00	00	00	00	01	E0	00	00	00	00	00	00
20	00	00	00	00	00	00	00	00	00	00	00	00	49	18	91	E0
30	00	00	00	00	40	00	00	00	00	00	00	00	13	01	00	00
40	01	58	C3	F9	08	00	00	00	00	00	00	00	00	00	00	00
50	00	00	00	00	00	00	00	00	10	C0	01	00	C5	FF	90	05
60	00	20	10	00	11	FC	07	00	40	00	11	10	03	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
80	00	00	00	00	69	19	91	E0	00	00	00	00	00	00	00	00
90	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
A0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
C0	05	D8	88	01	00	00	00	00	00	00	00	00	00	00	00	00
D0	00	00	00	00	00	00	00	00	11	00	0F	00	00	20	00	00
E0	00	30	00	00	00	00	00	00	00	00	00	00	00	00	00	00
F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
100	01	00	01	18	00	00	00	00	00	00	00	00	21	00	06	00
110	00	00	00	00	00	20	00	00	A0	00	00	00	00	00	00	00
120	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
130	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

Description	VGA Controller
Location	bus 5 (0x05), device 0 (0x00), function 0 (0x00)
Common header	
Vendor ID	0x10DE
Model ID	0x1E84
Revision ID	0xA1
PI	0x00
SubClass	0x00
BaseClass	0x03
Cache Line	0x10
Latency	0x00
Header	0x80
PCI header	
Address 0 (memory)	0xEE000000
Address 1 (memory)	0xD0000000
Address 3 (memory)	0xE0000000
Address 5 (port)	0x0000D000
Subvendor ID	0x1458
Subsystem ID	0x4008

Int. Line	0x10
Int. Pin	0x01
PCI capability	
Caps class	Power Management
Caps offset	0x60
Caps version	1.2
PCI capability	
Caps class	Message Signalled Interrupts
Caps offset	0x68
PCI capability	
Caps class	PCI Express
Caps offset	0x78
Device type	Legacy PCI-E Endpoint Device
Port	0
Version	2.0
Link width	4x (max 16x)
Extended capabilities	
Caps class	Virtual Channel
Caps offset	0x100
Caps class	0x18
Caps offset	0x250
Caps class	0x1E
Caps offset	0x258
Caps class	Power Budgeting
Caps offset	0x128
Caps class	Advanced Error Reporting
Caps offset	0x420
Caps class	Vendor Specific
Caps offset	0x600
Vendor ID	1
Size	36
PCI registers	
	00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00	DE 10 84 1E 07 00 10 00 A1 00 00 03 10 00 80 00
10	00 00 00 EE 0C 00 00 D0 00 00 00 0C 00 00 E0
20	00 00 00 00 01 D0 00 00 00 00 00 00 58 14 08 40
30	00 00 00 00 60 00 00 00 00 00 00 00 10 01 00 00
40	58 14 08 40 00 00 00 00 00 00 00 00 00 00 00 00
50	00 00 00 00 01 00 00 00 CE D6 23 00 00 00 00 00
60	01 68 C3 C9 08 00 00 00 05 78 80 00 00 00 00 00
70	00 00 00 00 00 00 00 00 10 00 12 00 E1 8D E8 17
80	10 29 19 00 02 3D 46 00 40 01 41 10 00 00 00 00
90	00 00 00 00 00 00 00 00 00 00 00 00 13 08 04 00
A0	00 04 00 00 06 00 00 00 02 00 00 00 00 00 00 00
B0	00 00 00 00 09 00 14 01 00 00 00 00 00 00 00 00
C0	00 00 00 00 00 00 00 00 11 00 05 00 00 00 B9 00
D0	00 00 BA 00 00 00 00 00 00 00 00 00 58 14 08 40
E0	58 14 08 40 03 00 00 00 00 00 00 00 00 00 00 00
F0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
100	02 00 01 25 00 00 00 00 00 00 00 00 00 00 00 00
110	00 00 00 00 01 00 00 80 00 00 00 00 00 00 00 00
120	00 00 00 00 00 00 00 00 04 00 01 42 00 00 00 00
130	21 81 07 00 00 00 00 00 00 00 00 00 00 00 00 00

Description	Multimedia device
Location	bus 5 (0x05), device 0 (0x00), function 1 (0x01)
Common header	
Vendor ID	0x10DE
Model ID	0x10F8
Revision ID	0xA1
PI	0x00
SubClass	0x03
BaseClass	0x04
Cache Line	0x10
Latency	0x00
Header	0x80
PCI header	
Address 0 (memory)	0xEF080000
Subvendor ID	0x1458
Subsystem ID	0x4008
Int. Line	0x11
Int. Pin	0x02
PCI capability	
Caps class	Power Management
Caps offset	0x60
Caps version	1.2
PCI capability	
Caps class	Message Signalled Interrupts
Caps offset	0x68
PCI capability	
Caps class	PCI Express
Caps offset	0x78
Device type	PCI-E Endpoint Device
Port	0
Version	2.0
Link width	4x (max 16x)
Extended capabilities	
Caps class	Advanced Error Reporting
Caps offset	0x100
PCI registers	
	00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00	DE 10 F8 10 06 00 10 00 A1 00 03 04 10 00 80 00
10	00 00 08 EF 00 00 00 00 00 00 00 00 00 00 00 00
20	00 00 00 00 00 00 00 00 00 00 00 00 58 14 08 40
30	00 00 00 00 60 00 00 00 00 00 00 00 11 02 00 00
40	58 14 08 40 00 00 00 00 00 00 00 00 00 00 00 00
50	00 00 00 00 00 00 00 00 CE D6 23 00 00 00 00 00
60	01 68 03 00 08 00 00 00 05 78 80 00 00 00 00 00
70	00 00 00 00 00 00 00 00 10 00 02 00 E1 8D E8 07
80	00 28 09 00 02 3D 45 00 40 01 41 10 00 00 00 00
90	00 00 00 00 00 00 00 00 00 00 00 00 13 08 04 00
A0	00 00 00 00 06 00 00 00 00 00 00 00 00 00 00 00
B0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
C0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
D0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
E0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
F0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
100	01 00 02 00 00 00 00 00 00 00 00 00 30 20 46 00

110	00 20 00 00 00 00 A0 00 00 00 00 00 00 00 00 00 00
120	00 00 00 00 00 00 00 00 00 00 00 00 00 0E 00 01 00
130	00 02 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

Description	USB Controller
Location	bus 5 (0x05), device 0 (0x00), function 2 (0x02)

Common header

Vendor ID	0x10DE
Model ID	0x1AD8
Revision ID	0xA1
PI	0x30
SubClass	0x03
BaseClass	0x0C
Cache Line	0x10
Latency	0x00
Header	0x80

PCI header

Address 0 (memory)	0xE2000000
Address 3 (memory)	0xE2040000
Subvendor ID	0x1458
Subsystem ID	0x4008
Int. Line	0x00
Int. Pin	0x03

PCI capability

Caps class	Message Signalled Interrupts
Caps offset	0x68

PCI capability

Caps class	PCI Express
Caps offset	0x78
Device type	PCI-E Endpoint Device
Port	0
Version	2.0
Link width	4x (max 16x)

PCI capability

Caps class	Power Management
Caps offset	0xB4
Caps version	1.2

Extended capabilities

Caps class	Advanced Error Reporting
Caps offset	0x100

PCI registers

	00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00	DE 10 D8 1A 06 04 10 00 A1 30 03 0C 10 00 80 00
10	0C 00 00 E2 00 00 00 00 00 00 00 00 0C 00 04 E2
20	00 00 00 00 00 00 00 00 00 00 00 00 00 58 14 08 40
30	00 00 00 00 68 00 00 00 00 00 00 00 00 00 03 00 00
40	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
50	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
60	31 60 00 00 00 00 00 00 05 78 81 00 0C F0 EF FE
70	00 00 00 00 A1 49 00 00 10 B4 02 00 E0 8D E8 07
80	00 28 19 00 02 3D 46 00 40 00 41 10 00 00 00 00 00
90	00 00 00 00 00 00 00 00 00 00 00 00 00 13 08 04 00
A0	00 00 00 00 06 00 00 00 00 00 00 00 00 00 00 00 00
B0	00 00 00 00 01 00 43 C8 08 00 00 00 00 00 00 00 00

C0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
D0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
E0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
F0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
100	01 00 02 00 00 00 00 00 00 00 40 00 30 20 46 00
110	00 20 00 00 00 A0 00 00 00 00 00 00 00 00 00 00
120	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
130	00 00 00 00 00 00 00 00 0E 00 01 00 00 03 00 00

Description	Serial Bus Controller
Location	bus 5 (0x05), device 0 (0x00), function 3 (0x03)
Common header	
Vendor ID	0x10DE
Model ID	0x1AD9
Revision ID	0xA1
PI	0x00
SubClass	0x80
BaseClass	0x0C
Cache Line	0x10
Latency	0x00
Header	0x80
PCI header	
Address 0 (memory)	0xEF084000
Subvendor ID	0x1458
Subsystem ID	0x4008
Int. Line	0x00
Int. Pin	0x04
PCI capability	
Caps class	Message Signalled Interrupts
Caps offset	0x68
PCI capability	
Caps class	PCI Express
Caps offset	0x78
Device type	PCI-E Endpoint Device
Port	0
Version	2.0
Link width	4x (max 16x)
PCI capability	
Caps class	Power Management
Caps offset	0xB4
Caps version	1.2
Extended capabilities	
Caps class	Advanced Error Reporting
Caps offset	0x100
PCI registers	
	00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00	DE 10 D9 1A 06 04 10 00 A1 00 80 0C 10 00 80 00
10	00 40 08 EF 00 00 00 00 00 00 00 00 00 00 00 00
20	00 00 00 00 00 00 00 00 00 00 00 00 00 58 14 08 40
30	00 00 00 00 68 00 00 00 00 00 00 00 00 00 04 00 00
40	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
50	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
60	00 00 00 00 00 00 00 00 05 78 81 00 0C F0 EF FE
70	00 00 00 00 B1 49 00 00 10 B4 02 00 E0 8D E8 07

80	00 28 19 00 02 3D 46 00 40 00 41 10 00 00 00 00
90	00 00 00 00 00 00 00 00 00 00 00 00 00 13 08 04 00
A0	00 00 00 00 06 00 00 00 00 00 00 00 00 00 00 00 00
B0	00 00 00 00 01 00 43 C8 08 00 00 00 00 00 00 00 00
C0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
D0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
E0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
F0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
100	01 00 02 00 00 00 00 00 00 00 00 00 00 30 20 46 00
110	00 20 00 00 00 A0 00 00 00 00 00 00 00 00 00 00 00
120	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
130	00 00 00 00 00 00 00 00 0E 00 01 00 00 00 00 00 00

DMI

SMBIOS Version 2.8

DMI BIOS

vendor	American Megatrends Inc.
version	P2.60
date	03/06/2018
ROM size	8192 KB

DMI System Information

manufacturer	To Be Filled By O.E.M.
product	To Be Filled By O.E.M.
version	To Be Filled By O.E.M.
serial	To Be Filled By O.E.M.
UUID	{03000200-0400-0500-0006-000700080009}
SKU	To Be Filled By O.E.M.
family	To Be Filled By O.E.M.

DMI Baseboard

vendor	ASRock
model	Z97 Killer
revision	unknown
serial	E80-45004500601

DMI System Enclosure

manufacturer	To Be Filled By O.E.M.
chassis type	Desktop
chassis serial	To Be Filled By O.E.M.

DMI Extension Slot

designation	PCI1
type	PCI
width	32 bits
populated	no

DMI Extension Slot

designation	PCI2
type	PCI

width	32 bits
populated	no
DMI Extension Slot designation	PCIE1
type	A5
populated	no
DMI Extension Slot designation	PCIE2
type	A5
populated	no
DMI Extension Slot designation	PCIE3
type	A5
populated	no
DMI Extension Slot designation	PCIE4
type	A5
populated	yes
DMI Extension Slot designation	PCIE5
type	A5
populated	no
DMI OEM Strings string[0]	To Be Filled By O.E.M.
DMI Physical Memory Array location	Motherboard
usage	System Memory
correction	None
max capacity	32 GB
max# of devices	4
DMI Processor manufacturer	Intel
model	Intel(R) Core(TM) i7-4790K CPU @ 4.00GHz
clock speed	4000.0 MHz
FSB speed	100.0 MHz
multiplier	40.0x
DMI Memory Device designation	ChannelA-DIMM0
format	DIMM
type	unknown
DMI Memory Device designation	ChannelA-DIMM1
format	DIMM
type	unknown

DMI Memory Device	
designation	ChannelB-DIMM0
format	DIMM
type	DDR3
total width	64 bits
data width	64 bits
size	8 GB

DMI Memory Device	
designation	ChannelB-DIMM1
format	DIMM
type	DDR3
total width	64 bits
data width	64 bits
size	8 GB

Storage

Drive	0	
	Name	Crucial_CT256MX100SSD1
	Revision	MU01
	Serial	14320CE710F0
	Capacity	238.5 GB
	Type	Fixed, SSD
	Bus Type	SATA (11)
	Features	SMART, TRIM
	Volume	c:\, 237.6 GBytes (40.4 percent available)

Drive	1	
	Name	ST1000DX001-1CM162
	Revision	CC43
	Serial	Z1DCZLVE
	Capacity	931.5 GB
	Type	Fixed
	Bus Type	SATA (11)
	Rotation speed	7200 RPM
	Features	SMART
	Volume	d:\, 833.9 GBytes (36.9 percent available)
	Volume	e:\, 97.7 GBytes (5.3 percent available)

Drive	2	
	Name	Samsung SSD 860 QVO 1TB
	Revision	RVQ01B6Q
	Serial	S4CZNF0MA47678P
	Capacity	931.5 GB
	Type	Fixed, SSD
	Bus Type	SATA (11)
	Features	SMART, TRIM
	Volume	g:\, 931.5 GBytes (4.2 percent available)

USB Devices

```

-----
USB Device          USB-Verbundgerät, class=0x00, subclass=0x00,
vendor=0x046D, product=0xC08B
USB Device          USB-Verbundgerät, class=0x00, subclass=0x00,
vendor=0x046D, product=0xC32B
USB Device          Logitech USB Camera (HD Pro Webcam C920),
class=0xEF, subclass=0x02, vendor=0x046D, product=0x082D
USB Device          Xbox 360-Controller für Windows, class=0xFF,
subclass=0xFF, vendor=0x045E, product=0x028E
USB Device          Per USB angeschlossenes SCSI
(UAS)-Massenspeichergerät, class=0x00, subclass=0x00, vendor=0x0BC2,
product=0x331A
USB Device          Generic USB Hub, class=0x09, subclass=0x00,
vendor=0x8087, product=0x8009
USB Device          USB-Verbundgerät, class=0x00, subclass=0x00,
vendor=0x03F0, product=0x0653
USB Device          Generic USB Hub, class=0x09, subclass=0x00,
vendor=0x8087, product=0x8001

```

Graphics

```

-----
Number of adapters          1

```

Graphic APIs

```

-----
API          D3D
API          NVIDIA I/O
API          NVIDIA NVAPI

```

Display Adapters

```

-----
Display adapter 0
  ID          0x10A0104
  Name        NVIDIA GeForce RTX 2070 SUPER
  Board Manufacturer GIGABYTE Technology
  Revision    A1
  Codename    TU104-410
  Core family 0x164 (TU104)
  Technology  12 nm
  Memory size 8 GB
  Memory type GDDR6
  Memory vendor Samsung
  PCI device  bus 5 (0x5), device 0 (0x0), function 0 (0x0)
  Vendor ID   0x10DE (0x1458)
  Model ID    0x1E84 (0x4008)
  Revision ID 0xA1
  Performance Level 0
    Core clock 300.0 MHz
    Memory clock 405.0 MHz

```

Win32_VideoController	AdapterRAM = 0xFFF00000 (4293918720)
Win32_VideoController	DriverVersion = 26.21.14.4187
Win32_VideoController	DriverDate = 12/24/2019

Monitor 0

Model	Acer X27 ()
ID	ACR0632
Serial	#ASMpuu2T2lfd
Manufacturing Date	Week 255, Year 2018
Size	27.2 inches
Max Resolution	3840 x 2160 @ 59 Hz
Horizontal Freq. Range	52-13 kHz
Vertical Freq. Range	24-120 Hz
Max Pixel Clock	1060 MHz
Gamma Factor	2.2

Software

Windows Version	Microsoft Windows 10 (10.0) Home 64-bit (Build 18362)
DirectX Version	12.0

Register Spaces

Register space	PCI
Register space	PCI #2
Register space	PCI Express, base address = 0xF0000000
Register space	SMBus, base address = 0xF000
Register space	LPC, base address = 0x0290
Register space	LPC, base address = 0x02E