

CPUID HWMonitor Report

Binaries

HWMonitor version 1.3.4.0

Monitoring

Mainboard Model Type2 - Board Product Name1 (0x000008FC - 0x2E5D4854)

LPCIO

Hardware Monitors

Hardware monitor	NVIDIA NVAPI
Temperature 0	76 degC (168 degF) [0x4C] (GPU)
Fan PWM 0	100 pc [0x64] (FANPWMIN0)

Processors

Number of sockets	1
Number of threads	8

APICs

Socket 0

-- Core 0		
-- Thread 0	0	
-- Thread 1	1	
-- Core 1		
-- Thread 0	2	
-- Thread 1	3	
-- Core 2		
-- Thread 0	4	
-- Thread 1	5	

-- Core 3
-- Thread 0 6
-- Thread 1 7

Timers

ACPI timer	3.580 MHz
Perf timer	2.338 MHz
Sys timer	1.000 KHz

Processors Information

Socket 1	ID = 0
Number of cores	4 (max 4)
Number of threads	8 (max 8)
Name	Intel Core i7 4700MQ
Codename	Haswell
Specification	Intel(R) Core(TM) i7-4700MQ CPU @ 2.40GHz
Package (platform ID)	Socket 947 rPGA (0x4)
CPUID	6.C.3
Extended CPUID	6.3C
Core Stepping	C0
Technology	22 nm
TDP Limit	47.0 Watts
Tjmax	100.0 °C
Core Speed	3195.8 MHz
Multiplier x Bus Speed	32.0 x 99.9 MHz
Stock frequency	2400 MHz
Instructions sets	MMX, SSE, SSE2, SSE3, SSSE3, SSE4.1, SSE4.2, EM64T, VT-x, AES, AVX, AVX2, FMA3
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	6 MBytes, 12-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, 6 MB, 16 thread(s)

FID/VID Control	yes
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Turbo Mode	supported, enabled
Max non-turbo ratio	24x
Max turbo ratio	34x
Max efficiency ratio	8x
O/C bins	+2
Ratio 1 core	34x
Ratio 2 cores	33x
Ratio 3 cores	32x
Ratio 4 cores	32x
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	47.0 W @ 24x

Temperature 0	86 degC (186 degF) (Package)
Temperature 1	84 degC (183 degF) (Core #0)
Temperature 2	85 degC (185 degF) (Core #1)
Temperature 3	86 degC (186 degF) (Core #2)
Temperature 4	84 degC (183 degF) (Core #3)
Voltage 0	0.93 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	35.63 W (Package)
Power 01	26.59 W (IA Cores)
Power 02	0.11 W (GT)
Power 03	7.15 W (Uncore)
Power 04	1.78 W (DRAM)
Clock Speed 0	3195.82 MHz (Core #0)
Clock Speed 1	3195.82 MHz (Core #1)
Clock Speed 2	3195.82 MHz (Core #2)
Clock Speed 3	3195.82 MHz (Core #3)
Core 0 max ratio	34.0 (effective 33.0)
Core 1 max ratio	34.0 (effective 34.0)

Core 2 max ratio	34.0 (effective 33.0)
Core 3 max ratio	34.0 (effective 33.0)

Thread dumps

CPU Thread 0

APIC ID

0

Topology

Processor ID 0, Core ID 0, Thread ID 0

CPUID

0x00000000	0x0000000D	0x756E6547	0x6C65746E	0x49656E69
0x00000001	0x000306C3	0x00100800	0x7FDAFBFF	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	0x02C0003F	0x00001FFF	0x00000006
0x00000005	0x00000040	0x00000040	0x00000003	0x00042120
0x00000006	0x00000077	0x00000002	0x00000009	0x00000000
0x00000007	0x00000000	0x000027AB	0x00000000	0x00000000
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	0x3037342D	0x20514D30	0x20555043
0x80000004	0x2E322040	0x48473034	0x0000007A	0x00000000
0x80000005	0x00000000	0x00000000	0x00000000	0x00000000
0x80000006	0x00000000	0x00000000	0x01006040	0x00000000
0x80000007	0x00000000	0x00000000	0x00000000	0x00000100
0x80000008	0x00003027	0x00000000	0x00000000	0x00000000

MSR 0x0000001B

0x00000000 0xFEE00900

MSR 0x0000003A	0x00000000	0x00000005
MSR 0x000001A0	0x00000000	0x00850089
MSR 0x000000CE	0x00080838	0xF3011800
MSR 0x00000017	0x00100000	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	0x20202122
MSR 0x00000194	0x00000000	0x00050000
MSR 0x0000019A	0x00000000	0x00000008
MSR 0x000001A4	0x00000000	0x00000000
MSR 0x000001B1	0x00000000	0x88180C00
MSR 0x000001FC	0x00000000	0x0004005F
MSR 0x00000606	0x00000000	0x000A0E03
MSR 0x00000601	0x00101414	0x000002A0
MSR 0x00000610	0x804281D6	0x00DC8178
MSR 0x00000611	0x00000000	0x0AF0572D
MSR 0x00000639	0x00000000	0x058FD03C
MSR 0x00000641	0x00000000	0x003B12B9
MSR 0x00000619	0x00000000	0x0101F4DD
MSR 0x00000614	0x00000000	0x00000178
MSR 0x00000648	0x00000000	0x00000018
MSR 0x00000649	0x00000000	0x00000000
MSR 0x0000064A	0x00000000	0x00000000
MSR 0x0000064B	0x00000000	0x80000000
MSR 0x0000019C	0x00000000	0x881B0C00
MSR 0x000001A2	0x00000000	0x00641000
MSR 0x00000198	0x000001C78	0x000001800
MSR 0x00000199	0x00000000	0x00002400

CPU Thread 1

APIC ID

1

Topology

Processor ID 0, Core ID 0, Thread ID 1

CPUID

0x00000000	0x0000000D	0x756E6547	0x6C65746E	0x49656E69
0x00000001	0x000306C3	0x01100800	0x7FDAFBBF	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	0x02C0003F	0x00001FFF	0x00000006
0x00000005	0x00000040	0x00000040	0x00000003	0x00042120
0x00000006	0x00000077	0x00000002	0x00000009	0x00000000
0x00000007	0x00000000	0x000027AB	0x00000000	0x00000000
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	0x3037342D	0x20514D30	0x20555043
0x80000004	0x2E322040	0x48473034	0x0000007A	0x00000000
0x80000005	0x00000000	0x00000000	0x00000000	0x00000000
0x80000006	0x00000000	0x00000000	0x01006040	0x00000000
0x80000007	0x00000000	0x00000000	0x00000000	0x00000100
0x80000008	0x00003027	0x00000000	0x00000000	0x00000000

MSR 0x0000001B	0x00000000	0xFEE00800
MSR 0x0000003A	0x00000000	0x00000005
MSR 0x000001A0	0x00000000	0x00850089
MSR 0x000000CE	0x00080838	0xF3011800
MSR 0x00000017	0x00100000	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	0x20202122
MSR 0x00000194	0x00000000	0x00050000
MSR 0x0000019A	0x00000000	0x00000008
MSR 0x000001A4	0x00000000	0x00000000
MSR 0x000001B1	0x00000000	0x88180C00

MSR 0x000001FC	0x00000000	0x0004005F
MSR 0x00000606	0x00000000	0x000A0E03
MSR 0x00000601	0x00101414	0x000002A0
MSR 0x00000610	0x804281D6	0x00DC8178
MSR 0x00000611	0x00000000	0x0AF0760F
MSR 0x00000639	0x00000000	0x058FE3B3
MSR 0x00000641	0x00000000	0x003B168A
MSR 0x00000619	0x00000000	0x0101F6BF
MSR 0x00000614	0x00000000	0x00000178
MSR 0x00000648	0x00000000	0x00000018
MSR 0x00000649	0x00000000	0x00000000
MSR 0x0000064A	0x00000000	0x00000000
MSR 0x0000064B	0x00000000	0x80000000
MSR 0x0000019C	0x00000000	0x881A0C00
MSR 0x000001A2	0x00000000	0x00641000
MSR 0x00000198	0x00001D3C	0x00001900
MSR 0x00000199	0x00000000	0x00002400

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	0x7FDAFBBF	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	0x02C0003F	0x00001FFF	0x00000006
0x00000005	0x00000040	0x00000040	0x00000003	0x00042120
0x00000006	0x00000077	0x00000002	0x00000009	0x00000000
0x00000007	0x00000000	0x000027AB	0x00000000	0x00000000
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	0x3037342D	0x20514D30	0x20555043
0x80000004	0x2E322040	0x48473034	0x0000007A	0x00000000
0x80000005	0x00000000	0x00000000	0x00000000	0x00000000
0x80000006	0x00000000	0x00000000	0x01006040	0x00000000
0x80000007	0x00000000	0x00000000	0x00000000	0x00000100
0x80000008	0x00003027	0x00000000	0x00000000	0x00000000

MSR 0x0000001B	0x00000000	0xFEE00800
MSR 0x0000003A	0x00000000	0x00000005
MSR 0x000001A0	0x00000000	0x00850089
MSR 0x000000CE	0x00080838	0xF3011800
MSR 0x00000017	0x00100000	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	0x20202122
MSR 0x00000194	0x00000000	0x00050000
MSR 0x0000019A	0x00000000	0x00000008
MSR 0x000001A4	0x00000000	0x00000000
MSR 0x000001B1	0x00000000	0x88160C00
MSR 0x000001FC	0x00000000	0x0004005F
MSR 0x00000606	0x00000000	0x000A0E03
MSR 0x00000601	0x00101414	0x000002A0
MSR 0x00000610	0x804281D6	0x00DC8178
MSR 0x00000611	0x00000000	0x0AF092D5
MSR 0x00000639	0x00000000	0x058FF53F
MSR 0x00000641	0x00000000	0x003B1AD7
MSR 0x00000619	0x00000000	0x0101F8FA
MSR 0x00000614	0x00000000	0x00000178
MSR 0x00000648	0x00000000	0x00000018
MSR 0x00000649	0x00000000	0x00000000
MSR 0x0000064A	0x00000000	0x00000000
MSR 0x0000064B	0x00000000	0x80000000
MSR 0x0000019C	0x00000000	0x881B0C00
MSR 0x000001A2	0x00000000	0x00641000
MSR 0x00000198	0x00001D40	0x00001900

MSR 0x00000199 0x00000000 0x00002400

CPU Thread 3

APIC ID 3

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

CPUID

0x00000000	0x0000000D	0x756E6547	0x6C65746E	0x49656E69
0x00000001	0x000306C3	0x03100800	0x7FDAFBFF	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	0x02C0003F	0x00001FFF	0x00000006
0x00000005	0x00000040	0x00000040	0x00000003	0x00042120
0x00000006	0x00000077	0x00000002	0x00000009	0x00000000
0x00000007	0x00000000	0x000027AB	0x00000000	0x00000000
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	0x3037342D	0x20514D30	0x20555043
0x80000004	0x2E322040	0x48473034	0x0000007A	0x00000000
0x80000005	0x00000000	0x00000000	0x00000000	0x00000000
0x80000006	0x00000000	0x00000000	0x01006040	0x00000000
0x80000007	0x00000000	0x00000000	0x00000000	0x00000100
0x80000008	0x00003027	0x00000000	0x00000000	0x00000000

MSR 0x0000001B 0x00000000 0xFEE00800

MSR 0x0000003A 0x00000000 0x00000005

MSR 0x000001A0 0x00000000 0x00850089

MSR 0x000000CE 0x00080838 0xF3011800

MSR 0x00000017 0x00100000 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	0x20202122
MSR 0x00000194	0x00000000	0x00050000
MSR 0x0000019A	0x00000000	0x00000008
MSR 0x000001A4	0x00000000	0x00000000
MSR 0x000001B1	0x00000000	0x88170C00
MSR 0x000001FC	0x00000000	0x0004005F
MSR 0x00000606	0x00000000	0x000A0E03
MSR 0x00000601	0x00101414	0x000002A0
MSR 0x00000610	0x804281D6	0x00DC8178
MSR 0x00000611	0x00000000	0x0AF0B63B
MSR 0x00000639	0x00000000	0x05900AE8
MSR 0x00000641	0x00000000	0x003B1F62
MSR 0x00000619	0x00000000	0x0101FB3B
MSR 0x00000614	0x00000000	0x00000178
MSR 0x00000648	0x00000000	0x00000018
MSR 0x00000649	0x00000000	0x00000000
MSR 0x0000064A	0x00000000	0x00000000
MSR 0x0000064B	0x00000000	0x80000000
MSR 0x0000019C	0x00000000	0x881B0C00
MSR 0x000001A2	0x00000000	0x00641000
MSR 0x00000198	0x0000209C	0x00001D00
MSR 0x00000199	0x00000000	0x00002400

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	0x7FDAFBBF	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	0x02C0003F	0x00001FFF	0x00000006
0x00000005	0x00000040	0x00000040	0x00000003	0x00042120

0x00000006	0x00000077	0x00000002	0x00000009	0x00000000
0x00000007	0x00000000	0x000027AB	0x00000000	0x00000000
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	0x3037342D	0x20514D30	0x20555043
0x80000004	0x2E322040	0x48473034	0x0000007A	0x00000000
0x80000005	0x00000000	0x00000000	0x00000000	0x00000000
0x80000006	0x00000000	0x00000000	0x01006040	0x00000000
0x80000007	0x00000000	0x00000000	0x00000000	0x00000100
0x80000008	0x00003027	0x00000000	0x00000000	0x00000000

MSR 0x0000001B	0x00000000	0xFEE00800
MSR 0x0000003A	0x00000000	0x00000005
MSR 0x000001A0	0x00000000	0x00850089
MSR 0x000000CE	0x00080838	0xF3011800
MSR 0x00000017	0x00100000	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	0x20202122
MSR 0x00000194	0x00000000	0x00050000
MSR 0x0000019A	0x00000000	0x00000008
MSR 0x000001A4	0x00000000	0x00000000
MSR 0x000001B1	0x00000000	0x88170C00
MSR 0x000001FC	0x00000000	0x0004005F
MSR 0x00000606	0x00000000	0x000A0E03
MSR 0x00000601	0x00101414	0x000002A0
MSR 0x00000610	0x804281D6	0x00DC8178
MSR 0x00000611	0x00000000	0x0AF0D461

MSR 0x00000639	0x00000000	0x05901E09
MSR 0x00000641	0x00000000	0x003B2305
MSR 0x00000619	0x00000000	0x0101FCF8
MSR 0x00000614	0x00000000	0x00000178
MSR 0x00000648	0x00000000	0x00000018
MSR 0x00000649	0x00000000	0x00000000
MSR 0x0000064A	0x00000000	0x00000000
MSR 0x0000064B	0x00000000	0x80000000
MSR 0x0000019C	0x00000000	0x88170C00
MSR 0x000001A2	0x00000000	0x00641000
MSR 0x00000198	0x00001D4B	0x00001900
MSR 0x00000199	0x00000000	0x00002400

CPU Thread 5

APIC ID

5

Topology

Processor ID 0, Core ID 2, Thread ID 1

CPUID

0x00000000	0x0000000D	0x756E6547	0x6C65746E	0x49656E69
0x00000001	0x000306C3	0x05100800	0x7FDAFBBF	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	0x02C0003F	0x00001FFF	0x00000006
0x00000005	0x00000040	0x00000040	0x00000003	0x00042120
0x00000006	0x00000077	0x00000002	0x00000009	0x00000000
0x00000007	0x00000000	0x000027AB	0x00000000	0x00000000
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	0x3037342D	0x20514D30	0x20555043
0x80000004	0x2E322040	0x48473034	0x0000007A	0x00000000

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

MSR 0x0000001B	0x00000000	0xFEE00800
MSR 0x0000003A	0x00000000	0x00000005
MSR 0x000001A0	0x00000000	0x00850089
MSR 0x000000CE	0x00080838	0xF3011800
MSR 0x00000017	0x00100000	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	0x20202122
MSR 0x00000194	0x00000000	0x00050000
MSR 0x0000019A	0x00000000	0x00000008
MSR 0x000001A4	0x00000000	0x00000000
MSR 0x000001B1	0x00000000	0x88170C00
MSR 0x000001FC	0x00000000	0x0004005F
MSR 0x00000606	0x00000000	0x000A0E03
MSR 0x00000601	0x00101414	0x000002A0
MSR 0x00000610	0x804281D6	0x00DC8178
MSR 0x00000611	0x00000000	0x0AF0F37D
MSR 0x00000639	0x00000000	0x05903213
MSR 0x00000641	0x00000000	0x003B2652
MSR 0x00000619	0x00000000	0x0101FF10
MSR 0x00000614	0x00000000	0x00000178
MSR 0x00000648	0x00000000	0x00000018
MSR 0x00000649	0x00000000	0x00000000
MSR 0x0000064A	0x00000000	0x00000000
MSR 0x0000064B	0x00000000	0x80000000
MSR 0x0000019C	0x00000000	0x88180C00
MSR 0x000001A2	0x00000000	0x00641000
MSR 0x00000198	0x00001E11	0x00001A00
MSR 0x00000199	0x00000000	0x00002400

CPU Thread 6

APIC ID

6

Topology

Processor ID 0, Core ID 3, Thread ID 0

CPUID

0x00000000	0x0000000D	0x756E6547	0x6C65746E	0x49656E69
0x00000001	0x000306C3	0x06100800	0x7FDAFBBF	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	0x02C0003F	0x00001FFF	0x00000006
0x00000005	0x00000040	0x00000040	0x00000003	0x00042120
0x00000006	0x00000077	0x00000002	0x00000009	0x00000000
0x00000007	0x00000000	0x000027AB	0x00000000	0x00000000
0x00000008	0x00000000	0x00000000	0x00000000	0x00000000
0x00000009	0x00000000	0x00000000	0x00000000	0x00000000
0x0000000A	0x07300403	0x00000000	0x00000000	0x00000603
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	0x3037342D	0x20514D30	0x20555043
0x80000004	0x2E322040	0x48473034	0x0000007A	0x00000000
0x80000005	0x00000000	0x00000000	0x00000000	0x00000000
0x80000006	0x00000000	0x00000000	0x01006040	0x00000000
0x80000007	0x00000000	0x00000000	0x00000000	0x00000100
0x80000008	0x00003027	0x00000000	0x00000000	0x00000000

MSR 0x0000001B	0x00000000	0xFEE00800
MSR 0x0000003A	0x00000000	0x00000005
MSR 0x000001A0	0x00000000	0x00850089
MSR 0x000000CE	0x00080838	0xF3011800
MSR 0x00000017	0x00100000	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	0x20202122
MSR 0x00000194	0x00000000	0x00050000
MSR 0x0000019A	0x00000000	0x00000008
MSR 0x000001A4	0x00000000	0x00000000
MSR 0x000001B1	0x00000000	0x88170C00
MSR 0x000001FC	0x00000000	0x0004005F
MSR 0x00000606	0x00000000	0x000A0E03
MSR 0x00000601	0x00101414	0x000002A0
MSR 0x00000610	0x804281D6	0x00DC8178
MSR 0x00000611	0x00000000	0x0AF11098
MSR 0x00000639	0x00000000	0x059043F7
MSR 0x00000641	0x00000000	0x003B2A73
MSR 0x00000619	0x00000000	0x010200B2
MSR 0x00000614	0x00000000	0x00000178
MSR 0x00000648	0x00000000	0x00000018
MSR 0x00000649	0x00000000	0x00000000
MSR 0x0000064A	0x00000000	0x00000000
MSR 0x0000064B	0x00000000	0x80000000
MSR 0x0000019C	0x00000000	0x88170C00
MSR 0x000001A2	0x00000000	0x00641000
MSR 0x00000198	0x00001D40	0x00001900
MSR 0x00000199	0x00000000	0x00002400

CPU Thread 7

APIC ID

7

Topology

Processor ID 0, Core ID 3, Thread ID 1

CPUID

0x00000000	0x0000000D	0x756E6547	0x6C65746E	0x49656E69
0x00000001	0x000306C3	0x07100800	0x7FDAFBBF	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	0x02C0003F	0x00001FFF	0x00000006
0x00000005	0x00000040	0x00000040	0x00000003	0x00042120
0x00000006	0x00000077	0x00000002	0x00000009	0x00000000
0x00000007	0x00000000	0x000027AB	0x00000000	0x00000000
0x00000008	0x00000000	0x00000000	0x00000000	0x00000000
0x00000009	0x00000000	0x00000000	0x00000000	0x00000000
0x0000000A	0x07300403	0x00000000	0x00000000	0x00000603

0x0000000B	0x00000001	0x00000002	0x00000100	0x00000007
0x0000000B	0x00000004	0x00000008	0x00000201	0x00000007
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	0x3037342D	0x20514D30	0x20555043
0x80000004	0x2E322040	0x48473034	0x0000007A	0x00000000
0x80000005	0x00000000	0x00000000	0x00000000	0x00000000
0x80000006	0x00000000	0x00000000	0x01006040	0x00000000
0x80000007	0x00000000	0x00000000	0x00000000	0x00000100
0x80000008	0x00003027	0x00000000	0x00000000	0x00000000

MSR 0x0000001B	0x00000000	0xFEE00800
MSR 0x0000003A	0x00000000	0x00000005
MSR 0x000001A0	0x00000000	0x00850089
MSR 0x000000CE	0x00080838	0xF3011800
MSR 0x00000017	0x00100000	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	0x20202122
MSR 0x00000194	0x00000000	0x00050000
MSR 0x0000019A	0x00000000	0x00000008
MSR 0x000001A4	0x00000000	0x00000000
MSR 0x000001B1	0x00000000	0x88170C00
MSR 0x000001FC	0x00000000	0x0004005F
MSR 0x00000606	0x00000000	0x000A0E03
MSR 0x00000601	0x00101414	0x000002A0
MSR 0x00000610	0x804281D6	0x00DC8178
MSR 0x00000611	0x00000000	0x0AF12F9A
MSR 0x00000639	0x00000000	0x05905702
MSR 0x00000641	0x00000000	0x003B2EEF
MSR 0x00000619	0x00000000	0x01020250
MSR 0x00000614	0x00000000	0x00000178
MSR 0x00000648	0x00000000	0x00000018

MSR 0x00000649	0x00000000	0x00000000
MSR 0x0000064A	0x00000000	0x00000000
MSR 0x0000064B	0x00000000	0x80000000
MSR 0x0000019C	0x00000000	0x88170C00
MSR 0x000001A2	0x00000000	0x00641000
MSR 0x00000198	0x00001E03	0x00001A00
MSR 0x00000199	0x00000000	0x00002400

Storage

Drive 0

Device Path

\\?\scsi#disk&ven_hgst&prod__hts541515a9e630#4&60de39e&0&040000#{53f56307-b6bf-11d0-94f2-00a0c91efb8b}

Type	Fixed
Bus Type	11
Name	HGST HTS541515A9E630
Capacity	1397.3 GB
SMART Support	Yes
Volume	c:\, 1383.9 GBytes (77.5 percent available)

USB Devices

USB Device	Apple Mobile Device USB Driver, class=0x00, subclass=0x00, vendor=0x05AC, product=0x12A8
USB Device	USB-Verbundgerät, class=0x00, subclass=0x00, vendor=0x041E, product=0x30DC
USB Device	USB-Eingabegerät, class=0x00, subclass=0x00, vendor=0x192F, product=0x0916
USB Device	Generic USB Hub, class=0x09, subclass=0x00, vendor=0x8087, product=0x8008
USB Device	Intel(R) Wireless Bluetooth(R), class=0xE0, subclass=0x01, vendor=0x8087, product=0x07DC
USB Device	USB-Verbundgerät, class=0xEF, subclass=0x02, vendor=0x04CA, product=0x701A
USB Device	Generic USB Hub, class=0x09, subclass=0x00, vendor=0x8087, product=0x8000

Graphic APIs

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

Display Adapters

Display adapter 0

ID	0x4000000
Display name	\\.\DISPLAY1
Name	Intel(R) HD Graphics 4600
Board Manufacturer	Toshiba
PCI device	bus 0 (0x0), device 2 (0x2), function 0 (0x0)
Vendor ID	0x8086 (0x1179)
Model ID	0x0416 (0xFA77)
Performance Level	0

Display adapter 1

ID	0x1000000
Name	NVIDIA GeForce GTX 770M
Board Manufacturer	Toshiba
Revision	A1
Memory size	3 GB
Memory type	GDDR5
PCI device	bus 1 (0x1), device 0 (0x0), function 0 (0x0)
Vendor ID	0x10DE (0x1179)
Model ID	0x11E0 (0xFA77)
Performance Level	0

Monitor 0

Model	()
ID	AUO209D
Serial	
Manufacturing Date	Week 0, Year 2011
Size	17.1 inches
Max Resolution	1920 x 1080 @ 60 Hz
Horizontal Freq. Range	0-0 kHz
Vertical Freq. Range	0-0 Hz
Max Pixel Clock	0 MHz
Gamma Factor	2.2

ACPI

ACPI Tree

- _GPE
 - _L0B
 - _L09
 - _L0D
 - _L02
 - _L06
 - _L07
- OSUP
- MMTB
- OSUW
- TBFF
- TSUB
- WSUB
- WWAK
- _E2A
- _L13
- _L0F
- _L1C
- _L1D
- _PR_
 - CPU0
 - _DEP
 - _PPC
 - _PCT
 - _PSS
 - PSDF
 - _PSD
 - HPSD
 - SPSD
 - HI0_
 - HC0_
 - _PDC
 - _OSC
 - CPDC
 - COSC
 - GCAP
 - C1TM

C3TM
C6TM
C7TM
CDTM
MWES
AC2V
AC3V
C3ST
C2ST
C1ST
CSTF
GEAR
_CST
CPU1
_DEP
HI1_
HC1_
_PDC
_OSC
GCAP
APCT
APPT
_PPC
_PCT
_PSS
PSDF
_PSD
HPSD
SPSD
_CST
CPU2
_DEP
_PDC
_OSC
GCAP
_PPC
_PCT
_PSS
PSDF
_PSD
HPSD
SPSD
_CST

CPU3

_DEP

_PDC

_OSC

GCAP

_PPC

_PCT

_PSS

PSDF

_PSD

HPSD

SPSD

_CST

CPU4

_DEP

_PDC

_OSC

GCAP

_PPC

_PCT

_PSS

PSDF

_PSD

HPSD

SPSD

_CST

CPU5

_DEP

_PDC

_OSC

GCAP

_PPC

_PCT

_PSS

PSDF

_PSD

HPSD

SPSD

_CST

CPU6

_DEP

_PDC

_OSC

GCAP
_PPC
_PCT
_PSS
PSDF
_PSD
HPSD
SPSD
_CST
CPU7
_DEP
_PDC
_OSC
GCAP
_PPC
_PCT
_PSS
PSDF
_PSD
HPSD
SPSD
_CST
PPMT
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PGRV
CFGD
[]
ACRT
APSV
AAC0
CPID
CPPC
CCTP
CLVL
CBMI
PL10
PL20
PLW0
CTC0
TAR0
PPC0
PL11
PL21

PLW1
CTC1
TAR1
PPC1
PL12
PL22
PLW2
CTC2
TAR2
PPC2
C3MW
C6MW
C7MW
CDMW
C3LT
C6LT
C7LT
CDLT
CDLV
CDPW
MPMF
SB
PRSA
PRSB
PRSC
PRSD
PRSE
PRSF
PRSG
PRSH
PCI0
_HID
_CID
_ADR
_BBN
_UID
PR00
AR00
_PRT
PR02
AR02
PR0A
AR0A

PR0B
AR0B
HBUS
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EPEN
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EPBR
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MHEN
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MHBR
[]
GCLK
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D0EN
D1F2
D1F1
D1F0
[]
PXEN
PXSZ
[]
PXBR
[]
DIEN
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DIBR
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MEBR
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PM0H
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PM1L
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PM1H
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PM2L
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PM2H
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PM3L
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PM3H
[]
PM4L
[]
PM4H
[]
PM5L
[]
PM5H
[]
PM6L
[]
PM6H
[]
[]
[]
TUUD
[]
[]
TLUD
[]
[]
HTSE
MCHT
BUF0
_CRS
GUID
SUPP
CTRL
XCNT
_OSC
P0P1
_ADR
_PRW
PR01
AR01
_PRT
LPCB
_ADR
LPC1
LPC0

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IOD0
IOD1
[]
IOD2
[]
[]
GR03
[]
GR08
GR09
GR0A
GR0B
[]
[]
GR19
[]
[]
RAEN
[]
RCBA
EC0_
 _HID
 _CRS
 _GPE
 _REG
EMEM
[]
[]
CMCM
CMD1
CMD2
CMD3
[]
[]
SMST
MBMN
MBPN
GPB1
GPB2
GPB3
GPB4

GPB5
GPB6
GPB7
GPB8
MAXS
[]
SMAA
[]
ACDF
[]
PFLG
[]
[]
FPR1
FLS4
S5LW
[]
[]
[]
WLID
[]
HPCF
SCFE
[]
PWBT
[]
CBTA
[]
[]
PSS5
[]
FBST
[]
HEBC
RL01
RD01
RF01
RP01
RB01
RC01
[]
R701
R801

RM01
RI01
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[]
[]
RA01
RR01
RL10
RD10
RF10
RP10
RB10
RC10
[]
R710
LEDS
RM10
RI10
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[]
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FBES
ECOF
[]
BAYE
PRDE
WP01
WB01
WC01
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W701
W801
WM01
WI01
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[]
[]
WA01
WR01
CCBC
BAYI
PRCT
WP10

WB10
DSPL
LIDS
W710
W810
WM10
WI10
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WA10
WR10
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SLPM
[]
POLG
ILDF
[]
BLVL
SLPL
DOFF
[]
RG57
CTMP
RG59
FSP2
FSPD
[]
WLAN
BLTH
CPLE
KSWH
[]
RFST
BTHE
TPAD
KBBL
W3GA
USBP
[]
W3GE
[]
TMOD

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[]
[]
[]
VGAF
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UMGA
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BTMD
MBTS
MBTF
[]
MBTC
[]
LION
[]
MBCF
[]
[]
FKME
[]
BATS
BA1C
MCLC
[]
MTEM
MBMD
MCUR
MBRM
MBVG
[]
BA2C
LFCC
BTSN
BTDC
BTDV
BTMN
[]
BTST
ABVG
[]
HDX1
HDY1

HDZ1
HDX2
HDY2
HDZ2
HDX3
HDY3
HDZ3
HDX4
HDY4
HDZ4
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EXCC
PPBC
RFSC
ACAC
BTCC
PAOC
FPOC
VOLC
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EPFE
EPFF
PWM1
PWM2
ACVO
ACCU
ACCA
REFT
[]
PECL
PECB
PECC
[]
EBPL
CIRE
USE2
[]
USEP
DQ7X
[]
PWRF
[]
BLST

BLFL
BLFU
[]
[]
VAUX
[]
S3WT
[]
WS3W
[]
DBPL
[]
PLID
[]
CSV1
CSV2
CSV3
CSV4
CTTO
CTTB
[]
DALB
OSTP
CIRF
[]
HEUE
BEUE
[]
VEVT
FEVT
NEVT
OSW8
[]
EC6I
EC6O
[]
NSBT
[]
CDPM
[]
PSST
PSET
STRO

ETRO
[]
PSRO
APOL
_Q20
_Q08
_Q09
_Q9B
_Q9C
_QA0
_QA1
_Q0F
_Q10
_Q11
_Q12
_Q8D
_Q8E
_Q8F
_Q01
_Q02
_Q90
_Q91
_Q92
_Q76
_Q77
_Q78
_Q89
_Q8A
_Q79
_QB0
_QB1
_QB6
_QB7
_QB4
_QB5
PSTA
CPOL
DMAC
_HID
_CRS
FWHD
_HID
_CRS

HPET
 _HID
 _UID
 BUF0
 _STA
 _CRS
IPIC
 _HID
 _CRS
MATH
 _HID
 _CRS
 _STA
LDRC
 _HID
 _UID
 _CRS
LDR2
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PBLK
PMBS
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LVL4
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APCL
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SRCB
SRCL
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HPTC
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ASSB
AOTB
AAXB
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SHPC
PEPM
PEER
PECS
ITKE
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FHPP
FMBL
FDTP
FUPS
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BWC_
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BRH_
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BHCP
BCOC
BFHP
BFCP
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BBGB
BHC2
TCGM
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WDTE
TRTD
TRTI
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PRM5
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PWRS
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TC2V
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PEP0

PEP3
DPTF
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VRPT
VRCT
VRHT
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DPPP
DPCP
DCMP
TRTV

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LPOS
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CVSD
SSDD
INLD
IFAT
IFPT
IFCT
IFHT
DOSD
USBH
BCV4
WTV0
WTV1
APFU
SOHP
NOHP
TBSE
WKFN
PEPC
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ISCT
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BLK4
BLK5
BTEN
WLA1
WN3G
ENSR
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DACB
TPDV

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PCIL
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BEUE
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FEVT
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KBIN
SLPB
KBBT
KBBO
KBBS
TMEU
ZPOF
ZPOD
ODDT
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PE02
PE03
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ALMO
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FKCS
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OAST
OADK
XHCM
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SEBO
UPIS
CRVD
ICIR
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USMD
SPVF
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BPD6
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IWLF
ECRV
ECUP
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 _HID
 _STA
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PWRU
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CLMP
PLEN
PLSV

CSEM
SPL1
RPL1
DDPS
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PICM
PRWP
GPRW
BRTN
RPA0
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RPA2
RPA3
RPA4
RPA5
RPA6
RPA7
PCHS
SRMB
PML1
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GE17

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GE45

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GE51

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GB03
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HDAD

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RP1D

RP2D

RP3D

RP4D

RP5D

RP6D

RP7D

RP8D

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UP0D

UP1D

UP2D

UP3D

UP4D

UP5D

UP6D

UP7D

UP8D

UP9D

UPAD

UPBD

UPCD

UPDD

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TRPF

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MDBG

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MDG0

DB2H

DW2H

DD2H

MBGS

ADBG

SHOW

LINE

MDGC

UP_L
MOVE
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PSMI
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VINC
ZEEK
OSMI
MSMI
HSMI
FSMI
CSMI
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S3
S4
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WAK_
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IGDS
CADL
PADL
CSTE
NSTE
DID9
DIDA
DIDB

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IPAT
IPSC
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IBIA
ISSC
IPCF
IDMS
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P1UB
P2UB
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SKPD