	Pc Andrea					
	Dettagli	Specifiche	soket	over	clock	
Сри	Intel Core i5 9600K	Intel(R) Core(TM) i5-9600K CPU @ 3.70GHz	Socket 1151 LGA	4297.7 MHz	3700 MHz	
	"ipologia	qt	modello	Frequanze		
Ram	DDR4 32gb	4 dim da 8gb	CMK16GX4M2B3000C15	3200mhz		
	Tipolgia	qt				
Hardisk	ssd slot m2	256gb				
	GPU 1	GPU 1	GPU 2	GPU 2		
Altro	NVIDIA GeForce GTX 1660 Ti	6gb ram ddr6	Intel UHD 630	ram sistema		
CPU-ZTXT Report						
Binaries						

naruisk	GPU 1		GPU 1	GPU 2	GPU 2
Altro	NVIDIA GeForce GT	X 1660 Ti	6gb ram ddr6	Intel UHD 630	ram sistema
CPU-Z TXT Report					
Binaries					
CPU-Z version				2.08.0.x64	
Processors					
CPU Groups					1
CPU Group 0				6 threads, mask=0x3F	-
Number of sockets			1		
Number of threads			6		
APICs					
Socket 0	Core 0 (ID 0)				
			Thread 0		0
	Core 1 (ID 1)		Thread 1		2
	Core 2 (ID 2)				
	Core 3 (ID 3)		Thread 2		4
	core 3 (10 3)		Thread 3		6
	Core 4 (ID 4)				_
	Core 5 (ID 5)		Thread 4		8
			Thread 5		10
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 Number of threads		6 (max 6)	6 (max 6)	
	Manufacturer			GenuineIntel	
	Name Codename			Coffee Lake	Intel Core i5 9600
	Specification			Intel(R) Core(TM) i5-9600K CPU @ 3.70GHz	
	Package (platform CPUID	ID)	Socket 1151 LGA (0x1)		6.E.D
	Extended CPUID			6.9E	b.E.D
	Core Stepping			RO	
	Technology TDP Limit			14 nm 95.0 Watts	
	Tjmax				100.0 C
	Core Speed Multiplier x Bus Spe		43.0 x 99.9 MHz	4297.7 MHz	
	Base frequency (co		99.9 MHz		
	Base frequency (me	em.)	99.9 MHz		
	Stock frequency Max frequency			3700 MHz 0 MHz	
	Instructions sets		MMX, SSE, SSE2, SSE3, SSSE3, SSE4.1, SSE4.2, EM64T		
	Microcode Revision L1 Data cache	1	0xDE	6 x 32 KB (8-way, 64-byte line)	
	L1 Instruction cache	2	6 x 32 KB (8-way, 64-byte line)		
	L2 cache L3 cache			6 x 256 KB (4-way, 64-byte line) 9 MB (12-way, 64-byte line)	
	Max CPUID level			00000016h	
	Max CPUID ext. leve FID/VID Control	el	80000008h		
	PID/ VID CONTROL			yes	
	Turbo Mode Max non-turbo rati	0	37x	supported, enabled	
	Max turbo ratio			46x	
	Max efficiency ratio		8x 8x		
	Speedshift			Autonomous	
	O/C bins Ratio 1 core			unlimited 46x	
	Ratio 2 cores			45x	
	Ratio 3 cores Ratio 4 cores			45x 44x	
	Ratio 5 cores			44x	
	Ratio 6 cores			43x	
	Ratio 7 cores Ratio 8 cores			43x 43x	
	TDP Level			95.0 W @ 37x	
	Temperature 0			48 degC (118 degF) (Package)	
	Temperature 1			49 degC (120 degF) (Cores (Max))	
	Temperature 2 Temperature 3			46 degC (114 degF) (Core #0) 52 degC (125 degF) (Core #1)	
	Temperature 4			47 degC (116 degF) (Core #2)	
	Temperature 5			46 degC (114 degF) (Core #3)	
	Temperature 6 Temperature 7			49 degC (120 degF) (Core #4) 51 degC (123 degF) (Core #5)	
	Voltage 0			1.34 Volts (VID)	
	Power 00 Power 01			27.61 W (Package) 24.65 W (IA Cores)	
	Power 02			0.59 W (GT)	
	Power 03 Clock Speed 0			2.42 W (DRAM) 4297.74 MHz (Core #0)	
	Clock Speed 1			4297.74 MHz (Core #1)	
	Clock Speed 2 Clock Speed 3			4297.74 MHz (Core #2) 4297.74 MHz (Core #3)	
	Clock Speed 3 Clock Speed 4			4297.74 MHz (Core #3) 4297.74 MHz (Core #4)	
	Clock Speed 5			4297.74 MHz (Core #5)	
	Core 0 max ratio Core 1 max ratio		46.00 (effective 44.00) 46.00 (effective 43.00)		
	Core 2 max ratio		46.00 (effective 44.00)		
	Core 3 max ratio Core 4 max ratio		46.00 (effective 43.00) 46.00 (effective 43.00)		
	Core 5 max ratio		46.00 (effective 45.00)		

Thread dumps

CPU Thread 0

APIC ID Topology Cache descriptor

Level 1, D, 32 KB, 2 thread(s)

Processor ID 0, Core ID 0, Thread ID 0

0

Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s) Level 3, U, 9 MB, 16 thread(s) Cache descriptor Cache descriptor Cache descriptor

CPUID					
0x00000000		0x00000016	0x756E6547	0x6C65746E	0x49656E69
0x00000001		0x000906ED	0x00100800	0xFFFAF38F	0xBFEBFBFF
0x00000002		0x76036301	0x00F0B6FF	0x00000000	0x00C30000
0x00000003		0x00000000	0x00000000	0x00000000	0x00000000
0x00000004		0x1C004121	0x01C0003F	0x0000003F	0x00000000
0x00000004		0x1C004122	0x01C0003F	0x0000003F	0x00000000
0x00000004		0x1C004143	0x00C0003F	0x000003FF	0x00000000
0x00000004		0x1C03C163	0x02C0003F	0x00002FFF	0x00000006
0x00000005		0x00000040	0x00000040	0x00000003	0x00042120
0x00000006		0x000007F3	0x00000002	0x00000001	0x00000000
0x00000007		0x00000000	0x009C67A9	0x00000000	0xBC000400
0x00000007		0x00000000	0x00000000	0x00000000	0x00000000
0x00000009		0x00000000	0x00000000	0x00000000	0x00000000
0x0000000A 0x0000000B		0x07300804 0x0000001	0x00000000 0x0000001	0x00000000 0x00000100	0x00000603 0x00000000
0x0000000B		0x00000004	0x00000006	0x00000201	0x00000000
0×0000000C		0x00000000	0x00000000	0x00000000	0x00000000
0x000000D		0x0000001F	0x00000440	0x00000440	0x00000000
0x000000D		0x0000000F	0x000003C0	0x00000000	0x00000000
0x000000D		0x00000100	0x00000240	0x00000000	0x00000000
0x0000000D		0x00000040	0x000003C0	0x00000000	0x00000000
0x000000D		0x00000040	0x00000400	0x00000000	0x00000000
0x000000E		0x00000000	0x00000000	0x00000000	0x00000000
0x000000F		0x00000000	0x00000000	0x00000000	0x00000000
0x00000010		0x00000000	0x00000000	0x00000000	0x00000000
0x00000011		0x00000000	0x00000000	0x00000000	0x00000000
0x00000012		0x00000000	0x00000000	0x00000000	0x00000000
0x00000013		0x00000000	0x00000000	0x00000000	0x00000000
0x00000014		0x00000001	0x000000F	0x00000003	0x00000000
0x00000015		0x00000002	0x00000134	0x00000000	0x00000000
0x00000016		0x00000000	0x00000000	0x00000000	0x00000000
0x40000000		0x4000000C	0x7263694D	0x666F736F	0x76482074
0x40000001		0x31237648	0x00000000	0x00000000	0x00000000
0x40000002		0x0000585D	0x000A0000	0x00000002	0x0000097C
0x40000003		0x00003FFF	0x002BB9FF	0x00000022	0x7DFEFBF6
0x40000004		0x00060D1C	0x00000000	0x0000002E	0x00000000
0x40000005		0x00000400	0x00000400	0x0000045C	0x00000000
0x40000006		0x007200AF	0x00000027	0x00000000	0x00000000
0x40000007		0x80000007	0x0000000B	0x00000000	0x00000000
0x40000008		0x00000000	0x00000000	0x00000000	0x00000000
0x40000009		0x00000000	0x00000000	0x00000000	0x00000000
0x40000003		0x00000000	0x00000000	0x00000000	0x00000000
0x4000000B		0x001FF002	0x00000000	0x00000000	0x00000000
0x40000005		0x00000000	0x00000000	0x00000000	0x00000000
0x80000000		0x80000008	0x00000000	0x00000000	0x00000000
0x800000001		0x00000000	0x00000000	0x00000000	0x2C100800
0x80000001					
0x80000002 0x80000003		0x65746E49	0x2952286C	0x726F4320 0x43204B30	0x4D542865
		0x35692029	0x3036392D		0x40205550
0x80000004		0x372E3320	0x7A484730	0×00000000	0x00000000
0x80000005		0x00000000	0x00000000	0x00000000	0x00000000
0x80000006		0x00000000	0x00000000	0x01006040	0x00000000
0x80000007		0x00000000	0x00000000	0x00000000	0x00000100
					0x00000100 0x00000000
0x80000007 0x80000008		0x0000000 0x00003027	0x0000000 0x0000000	0x00000000	
0x80000007		0x00000000	0x00000000	0x00000000	
0x80000007 0x80000008		0x0000000 0x00003027	0x0000000 0x0000000	0x00000000	
0x80000007 0x80000008 MSR 0x0000001B		0x00000000 0x00003027 0x00000000	0x0000000 0x0000000 0xFEE00D00	0x00000000	
0x80000007 0x80000008 MSR 0x0000001B MSR 0x00000035		0x0000000 0x00003027 0x0000000 0x0000000	0x0000000 0x0000000 0xFEE00D00 0x00060006	0x00000000	
0x80000007 0x80000008 MSR 0x0000001B MSR 0x00000035 MSR 0x000001A0		0x00000000 0x00003027 0x00000000 0x00000000 0x000000000	0x00000000 0x00000000 0xFEE00D00 0x00600006 0x00850889	0x00000000	
0x80000007 0x80000008 MSR 0x0000001B MSR 0x00000035 MSR 0x000001A0 MSR 0x00000770 MSR 0x00000774		\$\phi00000000 \(\phi00000000 \) \(\phi00000000 \) \(\phi0000000 \) \(\phi0000000 \) \(\phi0000000 \) \(\phi00000000 \) \(\phi00000000 \) \(\phi0000000000000 \) \(\phi000000000000000000000000000000000000	0x00000000 0x00000000 0xFEE00000 0x00000000 0x00000000 0x00000000	0x00000000	
0x80000007 0x80000008 MSR 0x0000001B MSR 0x00000035 MSR 0x000001A0 MSR 0x00000770		0x00000000 0x00003027 0x00000000 0x00000000 0x00000000 0x000000	0x00000000 0xFEE00D00 0x00600006 0x00660006 0x00850889 0x00000001	0x00000000	
0-880000007 0-8800000008 MSR 0-80000001B MSR 0-800000035 MSR 0-8000001A0 MSR 0-8000000770 MSR 0-8000000774 MSR 0-8000000077 MSR 0-800000001E MSR 0-800000001T		0x00000000 0x00000000 0x00000000 0x000000	0x00000000 0x00000000 0xFEE00000 0x00050006 0x00050089 0x00050001 0x00000715 0xF1012500 0x000000000000000000000000000000000	0x00000000	
0x80000007 0x800000008 MSR 0x00000018 MSR 0x00000035 MSR 0x000001A0 MSR 0x00000770 MSR 0x00000774 MSR 0x000000CE		0x00000000 0x00003027 0x00000000 0x00000000 0x00000000 0x000000	0x00000000 0x000000000 0x000000000 0x000000	0x00000000	
0x80000007 0x80000008 MSR 0x0000001B MSR 0x00000035 MSR 0x000001A0 MSR 0x00000770 MSR 0x00000774 MSR 0x00000075 MSR 0x0000000CE MSR 0x00000017 MSR 0x000000017		0x00000000 0x00003027 0x00000000 0x00000000 0x00000000 0x000000	0x00000000 0x0EE000000 0x00E000000 0x000E00000 0x000E00001 0x00000001 0x0000F25 0xF1012500 0x00000000 0x0FFC3A73	0x00000000	
DASO000007 DASO000008 MSR 0x0000001B MSR 0x00000035 MSR 0x000001A0 MSR 0x00000170 MSR 0x000000770 MSR 0x0000000001 MSR 0x000000017 MSR 0x0000000017 MSR 0x000000017 MSR 0x0000000017 MSR 0x0000000017		0x00000000 0x00000000 0x00000000 0x000000	0x00000000 0x00000000 0x6000000 0x00000000	0x00000000	
0x80000007 0x80000008 MSR 0x00000018 MSR 0x00000018 MSR 0x00000170 MSR 0x000001770 MSR 0x00000774 MSR 0x00000077 MSR 0x00000000000000000000000000000000000		0x00000000 0x000000000 0x00000000 0x000000	0x00000000 0x0FEE00000 0x000000000 0x00000000 0x00000000	0x00000000	
0x80000007 0x80000008 MSR 0x0000001B MSR 0x0000001S MSR 0x000001A0 MSR 0x00000770 MSR 0x00000774 MSR 0x00000000000000000000001 MSR 0x00000000000000000000000000000000000		0x00000000 0x00003027 0x00000000 0x00000000 0x00000000 0x000000	0x00000000 0x00000000 0x00000000 0x000000	0x00000000	
0x80000007 0x80000008 MSR 0x00000018 MSR 0x00000018 MSR 0x00000035 MSR 0x00000170 MSR 0x00000774 MSR 0x0000000CE MSR 0x0000000C1 MSR 0x0000000C1 MSR 0x000000C2 MSR 0x000000C3 MSR 0x000000C3 MSR 0x000000C3 MSR 0x000000C4 MSR 0x000000C4 MSR 0x000000C4 MSR 0x000000C4 MSR 0x000000C4		0x00000000 0x00000000 0x00000000 0x000000	0x00000000 0x6FE000000 0x000000000 0x00000000 0x00000000	0x00000000	
DASO000007 DASO000008 MSR 0x00000018 MSR 0x00000018 MSR 0x000001A0 MSR 0x00000770 MSR 0x00000774 MSR 0x00000000000000001 MSR 0x00000000000001 MSR 0x0000000000001 MSR 0x000000000001 MSR 0x00000000000001 MSR 0x00000000000000000000000000000000000		0x00000000 0x00003027 0x00000000 0x00000000 0x00000000 0x000000	0x00000000 0xFEE00000 0x00000000 0x00000000 0x00000001 0x0000001 0x0000F725 0x61012500 0x00000000 0xFEC1A73 0x366F1D3A 0x7E009519 0xE204A1C2 0x0051003C 0x0041FR88	0x00000000	
DASO000007 DASO RODOODS MSR 0x00000018 MSR 0x0000018 MSR 0x00000140 MSR 0x00000770 MSR 0x00000770 MSR 0x00000000000000000000000000000000000		0x00000000 0x00000000 0x00000000 0x000000	0x00000000 0xFEE00000 0x00000000 0x00000000 0x0000000	0x00000000	
0x80000007 0x800000008 MSR 0x00000018 MSR 0x00000018 MSR 0x00000035 MSR 0x0000001A0 MSR 0x000000770 MSR 0x0000000CE MSR 0x0000000CE MSR 0x0000000C1 MSR 0x0000000C1 MSR 0x0000000C3 MSR 0x0000000C3 MSR 0x000000C3 MSR 0x000000C3 MSR 0x000000186 MSR 0x00000187 MSR 0x000001AD		0x00000000 0x00000000 0x00000000 0x000000	0x00000000 0x6FEE00000 0x000060006 0x00006006 0x00006008 0x00000001 0x00000715 0x1012500 0x00000000 0x9FECAT3 0x366F103A 0x7E009519 0xE20A41C2 0x0051003C 0x04C20202E	0x00000000	
DASO000007 DASO DASO DASO DASO DASO DASO DASO DASO		0x00000000 0x00003027 0x00000000 0x00000000 0x00000000 0x000000	0x00000000 0x6EE00000 0x00000000 0x00000000 0x00000001 0x0000001 0x0000001 0x0000001 0x0000F25 0xF1012500 0x0000000 0xFFC3A73 0x366F1D3A 0x7E00519 0xE20A41C2 0x0051003C 0x0041F788 0x2C2D2DZE 0x00041F788 0x2C2D2DZE 0x000000000 0x00000000 0x000000000000	0x00000000	
0x80000007 0x800000008 MSR 0x00000018 MSR 0x00000035 MSR 0x00000035 MSR 0x0000001A0 MSR 0x00000077 MSR 0x00000077 MSR 0x00000001 MSR 0x00000001 MSR 0x00000001 MSR 0x000000001 MSR 0x0000000001 MSR 0x0000000001 MSR 0x000000003 MSR 0x00000003 MSR 0x000000018 MSR 0x00000018 MSR 0x0000018 MSR 0x0000018 MSR 0x0000018 MSR 0x0000014 MSR 0x00000194 MSR 0x00000194		0x00000000 0x00000000 0x00000000 0x000000	0x00000000 0x00000000 0x00000000 0x000000	0x00000000	
0x800000018 MSR 0x00000018 MSR 0x00000018 MSR 0x000000135 MSR 0x000000130 MSR 0x000000170 MSR 0x000000174 MSR 0x00000017 MSR 0x000000017 MSR 0x000000017 MSR 0x0000000017 MSR 0x0000000017 MSR 0x0000000017 MSR 0x000000017 MSR 0x000000018 MSR 0x000000018 MSR 0x000000187 MSR 0x00000194 MSR 0x00000194 MSR 0x00000196 MSR 0x00000196 MSR 0x000000196		0x00000000 0x00000000 0x00000000 0x000000	0x00000000 0x000000000 0x00000000 0x000000	0x00000000	
DASO000007 DASO DASO DASO DASO DASO DASO DASO DASO			0x00000000 0x000000000 0x00000000 0x000000	0x00000000	
0x80000007 0x800000008 MSR 0x00000018 MSR 0x00000018 MSR 0x000001A0 MSR 0x00000170 MSR 0x00000077 MSR 0x00000000000000000000000000000000000		0x00000000 0x00000000 0x00000000 0x000000	0x00000000 0x6FEE00000 0x600060006 0x000060006 0x00006008 0x0000011 0x000001715 0x10112500 0x10712500 0x10712501 0x107125	0x00000000	
D-8800000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x0000001A0 MSR 0x00000017A MSR 0x00000017A MSR 0x00000017 MSR 0x00000017 MSR 0x00000017 MSR 0x00000017 MSR 0x000000017 MSR 0x000000017 MSR 0x00000017 MSR 0x00000017 MSR 0x000000017 MSR 0x00000018 MSR 0x00000018 MSR 0x0000019A MSR 0x0000019A MSR 0x0000011A0 MSR 0x0000001A0 MSR 0x0000001A0 MSR 0x0000001A0 MSR 0x0000001A		0x00000000 0x00000000 0x00000000 0x000000	0x00000000 0x000000000 0x00000000 0x000000	0x00000000	
0x800000078 MSR 0x00000018 MSR 0x00000018 MSR 0x000000135 MSR 0x00000170 MSR 0x00000077 MSR 0x00000077 MSR 0x0000000000000000000000000018 MSR 0x00000000000000000000000000000000000		0x00000000 0x00000000 0x00000000 0x000000	0x00000000 0x000000000 0x000000000 0x000000	0x00000000	
0x800000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x0000001A0 MSR 0x0000001A0 MSR 0x0000001A0 MSR 0x0000001A MSR 0x0000001A MSR 0x0000001A MSR 0x0000001A MSR 0x00000001A MSR 0x0000001A MSR 0x0000001A MSR 0x000001A		0x00000000 0x00000000 0x00000000 0x000000	0x00000000 0x6FEE00000 0x000060006 0x00006006 0x00006008 0x0000001 0x0000001 0x00000000 0x6FFC2A73 0x366F103A 0x366F103A 0x7E809519 0xE204ALC2 0x00010000 0x6FFC2A73 0x366F103A 0x7E809519 0xE204ALC2 0x00010000 0x60000000000000000000000000	0x00000000	
0x800000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x000000170 MSR 0x000000170 MSR 0x000000177 MSR 0x000000177 MSR 0x000000017 MSR 0x000000017 MSR 0x000000017 MSR 0x000000017 MSR 0x000000018 MSR 0x00000018 MSR 0x00000018 MSR 0x0000018 MSR 0x0000019 MSR 0x00000019 MSR 0x000000019 MSR 0x00000000000000000000000000000000000		0.00000000 0.000000000 0.00000000 0.000000	0x00000000 0x0000000000000000000000000	0x00000000	
D-8800000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000035 MSR 0x00000035 MSR 0x000000170 MSR 0x000000174 MSR 0x000000177 MSR 0x00000017 MSR 0x000000017 MSR 0x000000018 MSR 0x00000018 MSR 0x00000018 MSR 0x000000194 MSR 0x000000194 MSR 0x000000194 MSR 0x000000194 MSR 0x000000194 MSR 0x000000194 MSR 0x000000196 MSR 0x000000186 MSR 0x000000186 MSR 0x000000186 MSR 0x000000186 MSR 0x000000186 MSR 0x000000186 MSR 0x000000666 MSR 0x000006660 MSR 0x00000661		0x00000000 0x00000000 0x00000000 0x000000	0x00000000 0x6FEE00000 0x60E006006 0x00850889 0x0000001 0x10E008589 0x00000000 0xFFEC3A73 0x366F103A 0x7E809319 0xE20A1C2 0x0031978 0x6041000 0xFEE03000000000000000000000000000000000	0x00000000	
0x800000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000010 MSR 0x000000170 MSR 0x000000171 MSR 0x000000171 MSR 0x000000171 MSR 0x000000171 MSR 0x000000017 MSR 0x000000017 MSR 0x000000017 MSR 0x00000017 MSR 0x00000017 MSR 0x00000017 MSR 0x00000017 MSR 0x00000017 MSR 0x00000017 MSR 0x00000018 MSR 0x0000017 MSR 0x0000017 MSR 0x0000017 MSR 0x00000017 MSR 0x00000017 MSR 0x00000017 MSR 0x00000017 MSR 0x000000017 MSR 0x00000017 MSR 0x00000017 MSR 0x00000017 MSR 0x000000017 MSR 0x0000000601 MSR 0x00000601		0x00000000 0x00000000 0x00000000 0x000000	0x00000000 0x6FEE00000 0x000060006 0x000060006 0x000060006	0x00000000	
DASB00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x0000001A0 MSR 0x0000001A0 MSR 0x0000001A0 MSR 0x0000001A0 MSR 0x0000001A MSR 0x0000001A0 MSR 0x0000001A0 MSR 0x0000001A0 MSR 0x0000001A0 MSR 0x0000001A0 MSR 0x0000001A0 MSR 0x000001A0 MSR 0x000001B1 MSR 0x0000001B1 MSR 0x000000601 MSR 0x000000601 MSR 0x00000601 MSR 0x00000601 MSR 0x00000601 MSR 0x00000601 MSR 0x00000601 MSR 0x00000601 MSR 0x000006061 MSR 0x000006061 MSR 0x000006061 MSR 0x000006061 MSR 0x000006061		0x00000000 0x00000000 0x00000000 0x000000	0x00000000 0xFEE00000 0x000000000 0x000000000 0x00000000	0x00000000	
0x80000008 MSR 0x100000018 MSR 0x100000018 MSR 0x100000135 MSR 0x100000170 MSR 0x1000001770 MSR 0x100000177 MSR 0x100000017 MSR 0x100000018 MSR 0x100000018 MSR 0x10000018 MSR 0x10000018 MSR 0x100000194 MSR 0x100000194 MSR 0x100000194 MSR 0x100000191 MSR 0x1000000601 MSR 0x100000601 MSR 0x100000601 MSR 0x100000601 MSR 0x100000611 MSR 0x100000611 MSR 0x100000611 MSR 0x100000611 MSR 0x100000611		0.00000000 0.000000000 0.00000000 0.000000	0x00000000 0x0FEE000000 0x000000000 0x000000000 0x0000000	0x00000000	
DAMES OF THE PROPERTY OF THE P		0x00000000 0x00000000 0x00000000 0x000000	0x00000000 0xFEE00000 0x000000000 0x000000000 0x00000000	0x00000000	
0x80000008 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000035 MSR 0x0000001A0 MSR 0x00000077 MSR 0x00000000000000000000000000000000000		0.000000000 0.000000000 0.000000000 0.000000	0x00000000 0x6FEE00000 0x000000000 0x000000000 0x00000000	0x00000000	
De800000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x0000001A0 MSR 0x0000001A0 MSR 0x0000001A0 MSR 0x0000001A0 MSR 0x0000001A MSR 0x000001AA MSR 0x0000001B MSR 0x0000001B MSR 0x0000001B MSR 0x000000601 MSR 0x00000061 MSR 0x0000061B MSR 0x0000064B MSR 0x0000064B MSR 0x0000064B		0x00000000 0x00000000 0x00000000 0x000000	0x00000000 0x6FEE00000 0x00060006 0x00060006 0x00060006 0x00060006	0x00000000	
0x800000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000013 MSR 0x00000170 MSR 0x000000177 MSR 0x000000177 MSR 0x000000177 MSR 0x000000017 MSR 0x000000017 MSR 0x000000017 MSR 0x000000017 MSR 0x000000017 MSR 0x000000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x0000018 MSR 0x0000018 MSR 0x00000194 MSR 0x00000061 MSR 0x00000611 MSR 0x00000611 MSR 0x00000611 MSR 0x00000614 MSR 0x00000644 MSR 0x00000649		0.000000000 0.000000000 0.000000000 0.000000	0x00000000 0x6FEE00000 0x000000000 0x000000000 0x00000000	0x00000000	
DASO0000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x0000001A0 MSR 0x0000001A0 MSR 0x0000001A0 MSR 0x0000001A0 MSR 0x0000001A MSR 0x0000001A0 MSR 0x0000001A0 MSR 0x00000001A0 MSR 0x00000001A0 MSR 0x0000001A0 MSR 0x0000001B1 MSR 0x0000001B1 MSR 0x000000601 MSR 0x000000601 MSR 0x000006061 MSR 0x0000061B1 MSR 0x0000064B1 MSR 0x00000064B1 MSR 0x0000064B1 MSR 0x00000064B1 MSR 0x0000064B1 MSR 0x00000064B1 MSR 0x00000064B1 MSR 0x00000064B1		0x00000000 0x00000000 0x00000000 0x000000	0x00000000 0x6FEE00000 0x00060006 0x00060006 0x00060006 0x00060006	0x00000000	
0x800000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000013 MSR 0x00000170 MSR 0x000000177 MSR 0x000000177 MSR 0x000000177 MSR 0x000000017 MSR 0x000000017 MSR 0x000000017 MSR 0x000000017 MSR 0x000000017 MSR 0x000000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x0000018 MSR 0x0000018 MSR 0x00000194 MSR 0x00000061 MSR 0x00000611 MSR 0x00000611 MSR 0x00000611 MSR 0x00000614 MSR 0x00000644 MSR 0x00000649		0.000000000 0.000000000 0.000000000 0.000000	0x00000000 0x6FEE00000 0x000000000 0x000000000 0x00000000	0x00000000	
DASPODODOS DASPODOS DASPODODOS DASPODOS DASPODODOS DASPODODOS DASPODOS DASPODODOS DASPODOS DASPODOS DASPODOS DASPODOS DASPODOS DASPODOS DASPODOS DASPODOS DASPODOS DAS		0.000000000 0.000000000 0.000000000 0.000000	0x00000000 0xFEE00000 0xFEE00000 0x00000000 0x00000000 0x00000000	0x00000000 0x00000000	
0.680000008 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000011A MSR 0x00000017A MSR 0x000000774 MSR 0x00000074 MSR 0x000000774 MSR 0x00000000000000000000000000000000000		0.000000000 0.000000000 0.000000000 0.000000	0x00000000 0xFEE00000 0xFEE00000 0x00000000 0x00000000 0x00000000	0x00000000	
0x80000008 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000140 MSR 0x00000174 MSR 0x00000174 MSR 0x00000174 MSR 0x000000174 MSR 0x00000017 MSR 0x00000017 MSR 0x00000017 MSR 0x00000017 MSR 0x00000017 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000194 MSR 0x00000194 MSR 0x00000197 MSR 0x00000619	level 1 D 32 KR 2 threadfel	0x000000000 0x000000000 0x00000000 0x000000	0x00000000 0xFEE00000 0xFEE00000 0x00000000 0x00000000 0x00000000	0x00000000 0x00000000	
0x800000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x000000135 MSR 0x000000140 MSR 0x000000170 MSR 0x000000171 MSR 0x000000171 MSR 0x000000171 MSR 0x000000017 MSR 0x000000017 MSR 0x000000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000194 MSR 0x00000194 MSR 0x00000194 MSR 0x00000196 MSR 0x00000196 MSR 0x00000197 MSR 0x00000197 MSR 0x00000197 MSR 0x00000198 MSR 0x00000198 MSR 0x00000198 MSR 0x00000198 MSR 0x00000199 MSR 0x000000199 MSR 0x000000649 MSR 0x00000649	Level 1, D, 32 KB, 2 thread(s)	0x000000000 0x000000000 0x00000000 0x000000	0x00000000 0xFEE00000 0xFEE00000 0x00000000 0x00000000 0x00000000	0x00000000 0x00000000	
DASB00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x000000170 MSR 0x000000174 MSR 0x000000174 MSR 0x000000174 MSR 0x000000174 MSR 0x000000174 MSR 0x000000017 MSR 0x000000017 MSR 0x000000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000019 MSR 0x00000194 MSR 0x00000197 MSR 0x000000197 MSR 0x000000197 MSR 0x000000197 MSR 0x000000619 MSR 0x00000619	Level 1, I, 32 KB, 2 thread(s)	0x000000000 0x000000000 0x00000000 0x000000	0x00000000 0xFEE00000 0xFEE00000 0x00000000 0x00000000 0x00000000	0x00000000 0x00000000	
0x800000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x000000135 MSR 0x000000140 MSR 0x000000170 MSR 0x000000171 MSR 0x000000171 MSR 0x000000171 MSR 0x000000171 MSR 0x000000017 MSR 0x000000017 MSR 0x000000017 MSR 0x000000018 MSR 0x000000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000194 MSR 0x00000194 MSR 0x00000194 MSR 0x00000194 MSR 0x00000196 MSR 0x00000196 MSR 0x00000197 MSR 0x00000197 MSR 0x00000197 MSR 0x000000197 MSR 0x000000198 MSR 0x000000199 APIC ID Topology Cache descriptor	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x000000000 0x000000000 0x00000000 0x000000	0x00000000 0xFEE00000 0xFEE00000 0x00000000 0x00000000 0x00000000	0x00000000 0x00000000	
DASB00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x000000170 MSR 0x000000174 MSR 0x000000174 MSR 0x000000174 MSR 0x000000174 MSR 0x000000174 MSR 0x000000017 MSR 0x000000017 MSR 0x000000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000019 MSR 0x00000194 MSR 0x00000197 MSR 0x000000197 MSR 0x000000197 MSR 0x000000197 MSR 0x000000619 MSR 0x00000619	Level 1, I, 32 KB, 2 thread(s)	0x000000000 0x000000000 0x00000000 0x000000	0x00000000 0xFEE00000 0xFEE00000 0x00000000 0x00000000 0x00000000	0x00000000 0x00000000	
0x800000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000013 MSR 0x00000014 MSR 0x00000017 MSR 0x00000017 MSR 0x00000017 MSR 0x00000017 MSR 0x00000017 MSR 0x000000017 MSR 0x000000017 MSR 0x000000018 MSR 0x000000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x0000019 MSR 0x00000019 APIC ID Topology Cache descriptor	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x000000000 0x000000000 0x00000000 0x000000	0x00000000 0xFEE00000 0xFEE00000 0x00000000 0x00000000 0x00000000	0x00000000 0x00000000	
DASBOODOOTS DASBOODOODS MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x000000174 MSR 0x000000174 MSR 0x000000174 MSR 0x000000174 MSR 0x000000174 MSR 0x000000175 MSR 0x000000017 MSR 0x000000175 MSR 0x000000185 MSR 0x000000186 MSR 0x000000186 MSR 0x000000187 MSR 0x00000187 MSR 0x00000191 MSR 0x000000191 MSR 0x000000610 MSR 0x00000610 MSR 0x00000619 MSR 0x00000649 MSR 0x0000064	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	Δ+000000000 Φ+000000000 Φ+000000000 Φ+00000000	0x00000000 0xFEE00000 0xFEE00000 0x00000000 0x000000000 0x00000000	0x00000000 0x00000000	0x0000000
0x800000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000013 MSR 0x00000014 MSR 0x00000017 MSR 0x00000017 MSR 0x00000017 MSR 0x00000017 MSR 0x00000017 MSR 0x000000017 MSR 0x000000017 MSR 0x000000018 MSR 0x000000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x0000019 MSR 0x00000019 APIC ID Topology Cache descriptor	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x000000000 0x000000000 0x00000000 0x000000	0x00000000 0xFEE00000 0xFEE00000 0x00000000 0x00000000 0x00000000	0x00000000 0x00000000	
D-8800000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000018 MSR 0x000000104 MSR 0x000000170 MSR 0x000000177 MSR 0x000000177 MSR 0x000000177 MSR 0x000000017 MSR 0x000000017 MSR 0x000000017 MSR 0x000000017 MSR 0x00000000018 MSR 0x000000018 MSR 0x00000018 MSR 0x00000018 MSR 0x00000194 MSR 0x00000194 MSR 0x00000194 MSR 0x00000196 MSR 0x00000196 MSR 0x00000196 MSR 0x00000197 MSR 0x000000197 MSR 0x00000197 MSR 0x00000198 MSR 0x00000198 MSR 0x00000198 MSR 0x000000198 MSR 0x000000199 MSR 0x000000198 MSR 0x000000199 APIC ID Topology Cache descriptor	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00000000 0x00000000 0x00000000 0x000000	0x00000000 0x60000000 0x000000000 0x00000000	0x000000000000000000000000000000000000	0x40000000

CPUID	
0x00000000	0x00000016
0x00000001	0x000906ED
0x00000002	0x76036301
0x00000003	0x00000000
0x00000004	0x1C004121
0x00000004	0x1C004122
0x00000004	0x1C004143
0x00000004	0x1C03C163

CPU Thread 1

0x7263694D 0x00000000 0x000A0000 0x002BB9FF 0x76482074 0x666F736F 0x4000000C 0x31237648 0x0000585D 0x00003FFF 0x00000000 0x00000002 0x000000022 0x00000000 0x0000097C 0x7DFEFBF6

0x40000004		0x00060D1C	0x00000000	0x0000002E	0x00000000
0x40000005 0x40000006		0x00000400 0x007200AF	0x00000400 0x0000027	0x0000045C 0x00000000	0x00000000 0x00000000
0x40000007		0x80000007	0x0000000B	0x00000000	0x00000000
0x40000008 0x40000009		0x00000000 0x0000000	0x0000000 0x0000000	0x00000000 0x0000000	0x000000000
0x40000003		0x00000000	0x00000000	0x00000000	0x00000000
0x4000000B		0x001FF002	0x00000000	0x00000000 0x00000000	0x00000000 0x00000000
0x4000000C 0x80000000		0x00000000 0x80000008	0x00000000 0x00000000	0x00000000	0x00000000
0x80000001		0x00000000	0x00000000	0x00000121	0x2C100800
0x80000002 0x80000003		0x65746E49 0x35692029	0x2952286C 0x3036392D	0x726F4320 0x43204B30	0x4D542865 0x40205550
0x80000004		0x372E3320	0x7A484730	0x00000000	0x00000000
0x80000005		0x00000000	0x00000000	0x00000000	0x00000000 0x00000000
0x80000006 0x80000007		0x00000000 0x00000000	0x00000000 0x0000000	0x01006040 0x00000000	0x000000000
0x80000008		0x00003027	0x00000000	0x00000000	0x00000000
MSR 0x0000001B		0x00000000	0xFEE00C00		
MSR 0x00000035		0x00000000	0x00060006		
MSR 0x000001A0 MSR 0x00000770		0x00000000 0x00000000	0x00850889 0x0000001		
MSR 0x00000774		0x0000019E	0x0000FF25		
MSR 0x000000CE MSR 0x00000017		0x08080838 0x00040000	0xF1012500 0x00000000		
MSR 0x00000017		0x0000FFFF	0xFFEFD0C7		
MSR 0x000000C2		0x00000068	0x87749DF2		
MSR 0x000000C3 MSR 0x000000C4		0x0000013C 0x000001D7	0xD5D09BE1 0xBBC74218		
MSR 0x00000186		0x00000000	0x0051003C		
MSR 0x00000187 MSR 0x000001AD		0x00000000 0x2B2B2B2C	0x0041FF88 0x2C2D2D2E		
MSR 0x00000194		0x00000000	0x000F0000		
MSR 0x0000019A MSR 0x0000019C		0x00000000 0x00000000	0x00000000 0x882B0008		
MSR 0x000001A2		0x00000000	0x00641000		
MSR 0x000001A4 MSR 0x000001B1		0x00000000 0x00000000	0x00000000 0x882B0008		
MSR 0x000001FC		0x00000000	0x0038005D		
MSR 0x00000606 MSR 0x00000601		0x00000000 0x00000000	0x000A0E03 0x80000000		
MSR 0x00000610		0x004287F8	0x001D87F8		
MSR 0x00000611		0x00000000	0xB796357A		
MSR 0x00000639 MSR 0x00000641		0x00000000 0x00000000	0xA1BF6842 0x026DF6A9		
MSR 0x00000619		0x00000000	0x1082D888		
MSR 0x00000614 MSR 0x00000648		0x0000000 0x0000000	0x000002F8 0x00000025		
MSR 0x00000649		0x00000000	0x00000000		
MSR 0x0000064A MSR 0x00000198		0x00000000 0x00002776	0x00000000 0x00002B00		
MSR 0x00000198		0x000002776 0x00000000	0x00002800 0x00002500		
APIC ID				4	
Topology	Level 1. D. 32 KB. 2 thread(s)	Processor ID 0, Core ID 2, Thread ID 0			
Cache descriptor Cache descriptor	Level 1, I, 32 KB, 2 thread(s) Level 1, I, 32 KB, 2 thread(s)				
Cache descriptor	Level 2, U, 256 KB, 2 thread(s)				
Cache descriptor	Level 3, U, 9 MB, 16 thread(s)				
CPUID					
0x00000000 0x00000001		0x00000016 0x000906ED	0x756E6547 0x04100800	0x6C65746E 0xFFFAF38F	0x49656E69 0xBFEBFBFF
0x00000002		0x76036301	0x00F0B6FF	0x00000000	0x00C30000
0x00000003		0x00000000	0x00000000	0x00000000	0x00000000
0x00000004 0x00000004		0x1C004121 0x1C004122	0x01C0003F 0x01C0003F	0x0000003F 0x0000003F	0x00000000 0x000000000
0x00000004 0x00000004		0x1C004121 0x1C004122 0x1C004143	0x01C0003F 0x01C0003F 0x00C0003F	0x0000003F 0x0000003F 0x000003FF	0x00000000 0x00000000 0x00000000
0x00000004		0x1C004121 0x1C004122	0x01C0003F 0x01C0003F	0x0000003F 0x0000003F	0x00000000 0x000000000
0x00000004 0x00000004 0x00000004 0x00000005 0x00000006		0x1C004121 0x1C004122 0x1C004143 0x1C03C163 0x00000040 0x00000073	0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00000040 0x00000040	0x000003F 0x000003F 0x000003FF 0x00002FFF 0x00000003 0x000000001	0x00000000 0x00000000 0x00000000 0x000000
0x00000004 0x00000004 0x00000004 0x00000005		0x1C004121 0x1C004122 0x1C004143 0x1C03C163 0x00000040	0x01C0003F 0x01C0003F 0x00C0003F 0x02C0003F 0x00000040	0x0000003F 0x000003F 0x00003FF 0x00002FFF 0x00000003	0x00000000 0x00000000 0x00000000 0x000000
0x0000004 0x00000004 0x00000004 0x00000005 0x00000006 0x00000007 0x00000008 0x00000009		0x1C004121 0x1C004122 0x1C004143 0x1C005163 0x00000004 0x0000000000000000000000000	0x01C0003F 0x01C0003F 0x00C0003F 0x00C0003F 0x00C000040 0x000000002 0x00000002 0x009C67A9 0x00000000 0x000000000000000000000000	0x0000003F 0x000003F 0x000003F 0x00002FF 0x00000003 0x00000001 0x00000000 0x00000000 0x00000000	0x00000000 0x00000000 0x00000000 0x000000
0x00000004 0x00000004 0x00000004 0x00000005 0x00000006 0x00000007 0x00000008 0x00000009 0x00000000		0x1.004121 0x1.004122 0x1.004143 0x1.0051.63 0x0.000040 0x0.0000073 0x0.0000000 0x0.0000000 0x0.00000000 0x0.00000000	0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00000040 0x00000002 0x000C00000 0x000000000 0x0000000000	0x000003F 0x000003F 0x000003FF 0x000003 0x00000003 0x00000000 0x00000000	0x00000000 0x00000000 0x00000006 0x00042120 0x0000000 0x8C000400 0x00000000 0x00000000 0x00000000
0x00000004 0x00000004 0x00000004 0x00000005 0x00000005 0x00000007 0x00000000 0x000000000 0x00000000		0x1.004121 0x1.004122 0x1.004143 0x1.0051.63 0x1.005000040 0x0.0000000 0x0.0000000 0x0.0000000 0x0.00000000	0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C000040 0x000000002 0x000000000 0x000000000 0x00000000	0x000003F 0x000003F 0x000003F 0x000003F 0x0000000 0x0000000 0x0000000 0x0000000	0x0000000 0x0000000 0x0000000 0x0000000 0x000000
0x00000004 0x00000004 0x00000005 0x00000005 0x00000007 0x00000000 0x00000000 0x00000000		0x1.004121 0x1.004122 0x1.004143 0x1.005163 0x0.0000040 0x0.00000773 0x0.00000000 0x0.00000000 0x0.00000000 0x0.00000001 0x0.00000001 0x0.00000001 0x0.00000001 0x0.00000001	0x01C0003F 0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C000000 0x000000000 0x000000000 0x0000000	0x0000003F 0x000003F 0x000003F 0x000005FF 0x00000001 0x00000000 0x00000000 0x00000000	0x00000000 0x00000000 0x00000000 0x000000
0x00000004 0x00000004 0x00000004 0x00000005 0x00000005 0x00000007 0x00000000 0x000000000 0x00000000		0x1.004121 0x1.004122 0x1.004143 0x1.0051.63 0x1.005000040 0x0.0000000 0x0.0000000 0x0.0000000 0x0.00000000	0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C000040 0x000000002 0x000000000 0x000000000 0x00000000	0x000003F 0x000003F 0x000003F 0x000003F 0x0000000 0x0000000 0x0000000 0x0000000	0x0000000 0x0000000 0x0000000 0x0000000 0x000000
0-00000004 0-00000004 0-00000005 0-00000005 0-00000007 0-00000000 0-000000000 0-00000000		0x1.C004121 0x1.C004122 0x1.C004143 0x1.C032.1.63 0x1.C032	0x01C0003F 0x01C0003F 0x02C0003F 0x02C0003F 0x00000040 0x00000002 0x009C67A9 0x00000000 0x00000000 0x0000000 0x000000	0x000003F 0x000003F 0x000003F 0x000003F 0x00000000 0x00000000 0x0000000 0x000000	0x0000000 0x00000000 0x00000000 0x000000
0x00000004 0x0000004 0x0000005 0x0000005 0x00000006 0x00000007 0x00000008 0x00000000 0x000000000 0x00000000		0x1C004121 0x1C004122 0x1C004143 0x1C03163 0x00000040 0x00000000 0x00000000 0x00000000	0x01C0003F 0x01C0003F 0x02C0003F 0x02C0003F 0x02C0003F 0x00000000 0x000000000 0x00000000 0x000000	0x000003F 0x000003F 0x000003F 0x0000003F 0x00000003 0x00000000 0x0000000 0x0000000 0x000000	0x0000000 0x00000000 0x00000006 0x00000006 0x00000000
0x00000004 0x00000004 0x00000005 0x00000006 0x00000007 0x00000000 0x00000000 0x00000000		0x1C004121 0x1C004122 0x1C004143 0x1C004143 0x1C0000040 0x1C03C163 0x00000040 0x00000000 0x00000000000000	0x01C0003F 0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00000000 0x00000000 0x00000000 0x000000	0x0000003F 0x000003F 0x000003F 0x0000001F 0x0000001 0x00000001 0x0000000 0x00000000	0x00000000 0x000000000 0x000000000 0x000000
0-00000004 0-00000004 0-00000004 0-00000005 0-00000005 0-00000007 0-00000000 0-0000000000		0x1C004121 0x1C004122 0x1C004143 0x1C004143 0x1C004163 0x00000000 0x00000000 0x00000000 0x000000	0x01C0003F 0x01C0003F 0x01C0003F 0x02C0003F 0x02C0003F 0x00000000 0x00000000 0x00000000 0x000000	0x000003F 0x000003F 0x000003F 0x0000003F 0x00000001 0x00000000 0x0000000 0x0000000 0x000000	RADOQUOQOO RAD
0-00000004 0-00000004 0-00000004 0-00000005 0-00000007 0-00000000 0-0000000000		0x1C004121 0x1C004122 0x1C004143 0x1C004143 0x1C004143 0x1C0000000 0x00000000 0x00000000 0x00000000	0x01C0003F 0x01C0003F 0x01C0003F 0x02C0003F 0x02C0003F 0x02C0003F 0x02C0000000000000000000000000000000000	0x000003F 0x000003F 0x000003F 0x000003F 0x00000003 0x00000000 0x00000000 0x0000000 0x000000	GA00000000
0x00000004 0x00000004 0x00000005 0x00000005 0x00000007 0x00000000 0x000000000 0x00000000		0x1C004121 0x1C004122 0x1C004143 0x1C004143 0x1C0000040 0x1C03C163 0x00000040 0x0000000000000000000000000	0x01C0003F 0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C000000000000000000000000000000000	0x0000003F 0x000003F 0x000003F 0x000005F 0x0000001 0x0000000 0x00000000 0x0000000 0x000000	Delta Delt
0x00000004 0x00000004 0x00000005 0x00000007 0x00000007 0x00000000 0x00000000		0x1C004121 0x1C004122 0x1C004143 0x1C004143 0x1C0000040 0x1C03C163 0x00000040 0x00000000 0x00000000000000	0x01C0003F 0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003P 0x00000000 0x00000000 0x00000000 0x000000	0x0000003F 0x000003F 0x000003F 0x0000001F 0x0000001 0x00000001 0x00000000 0x00000000	CADDO00000000000000000000000000000000000
0-00000004 0-00000004 0-00000004 0-00000005 0-00000007 0-00000000 0-0000000000		0x1C004121 0x1C004122 0x1C004143 0x1C004143 0x1C004143 0x1C00000040 0x000000000 0x000000000 0x00000000	0x01C0003F 0x01C0003F 0x00C0003F 0x00C0003F 0x00C000060 0x00C000000 0x00000000 0x00000000 0x00000000	0x000003F 0x000003F 0x000003F 0x000003F 0x00000001 0x00000000 0x00000000 0x0000000 0x000000	Delta Delt
0-00000004 0-00000004 0-00000005 0-00000005 0-00000007 0-00000000 0-0000000000		0x1C004121 0x1C004122 0x1C004123 0x1C004143 0x1C004143 0x1C00000040 0x000000000 0x000000000 0x00000000	0x01C0003F 0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C000000000000000000000000000000000	0x000003F 0x000003F 0x000003F 0x000003F 0x0000001 0x00000001 0x00000000 0x00000000	Colonion
0x00000004 0x00000004 0x00000005 0x00000007 0x00000007 0x00000000 0x00000000		0x1C004121 0x1C004122 0x1C004143 0x1C004143 0x1C004143 0x1C00000040 0x1C03C163 0x000000000 0x00000000000000000000000	0x01C0003F 0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00000000 0x00C0000000000000000000000	0x0000003F 0x000003F 0x000003F 0x0000003F 0x00000001 0x00000000 0x00000000 0x00000000	Colonion
0x00000004 0x00000004 0x00000005 0x00000006 0x00000007 0x00000008 0x00000000 0x000000000 0x00000000		0x1C004121 0x1C004122 0x1C004143 0x1C004143 0x1C004143 0x1C00000004 0x00000073 0x00000000 0x00000000 0x00000000 0x000000	0x01C0003F 0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00000002 0x009C67X9 0x0000000 0x00000000 0x00000000 0x000000		CADDO00000000000000000000000000000000000
0-00000004 0-00000004 0-00000005 0-00000005 0-00000007 0-00000000 0-0000000000		0x1C004121 0x1C004122 0x1C004123 0x1C004143 0x1C004143 0x1C0000004 0x1C03415 0x00000000 0x00000000 0x000000000 0x000000	OxD1C0003F OxD1C0003F OxD1C0003F OxD2C0003F OxD2C0003F OxD2C0003F OxD2C0003F OxD0000000 OxD00000000 OxD0000000000		CADDO000000 CADDO0000000 CADDO0000000 CADDO0000000 CADDO0000000 CADDO00000000 CADDO00000000 CADDO00000000 CADDO00000000000000000000000000000000000
0x00000004 0x00000004 0x00000005 0x00000005 0x00000007 0x00000000 0x0000000000		0x1C004121 0x1C004122 0x1C004123 0x1C004143 0x1C0000040 0x1C03C163 0x00000000 0x000000000 0x000000000 0x000000	OxD (CO003F OxD (Commonwealth Comm
0-00000004 0-00000004 0-00000005 0-00000005 0-00000007 0-0000000000		0x1C004121 0x1C004122 0x1C004143 0x1C004143 0x1C004143 0x1C00000040 0x1C005163 0x000000000 0x000000000 0x000000000 0x000000	0x01C0003F 0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00000000 0x00C000000 0x00C000000 0x00C000000 0x00C000000 0x00C000000 0x00C000000 0x00C000000 0x00C0000000 0x00C00000000		CADDO00000000000000000000000000000000000
0-00000004 0-00000004 0-00000005 0-00000005 0-00000007 0-00000000 0-0000000000		0x1C004121 0x1C004122 0x1C004123 0x1C004143 0x1C004143 0x1C00000040 0x1C005163 0x000000000 0x00000000 0x00000000 0x000000	0x01C0003F 0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00000000 0x00000000 0x00000000 0x000000		CADDO00000000000000000000000000000000000
0-000000004 0-00000004 0-00000005 0-00000005 0-00000007 0-00000000 0-0000000000		0x1C004121 0x1C004122 0x1C004143 0x1C004143 0x1C0000040 0x1C03C163 0x00000000 0x00000000 0x00000000 0x000000	OxD (CO003F OxD (Commonwealth Comm
0-000000004 0-00000004 0-00000005 0-00000005 0-00000007 0-00000007 0-00000000 0-00000000		0x1C004121 0x1C004122 0x1C004123 0x1C004143 0x1C004143 0x1C00000040 0x1C03C163 0x00000000 0x00000000 0x000000000 0x000000	0x01C0003F 0x01C0003F 0x01C0003F 0x02C0003F 0x02C0003F 0x02C0003F 0x02C0003F 0x00000000 0x00000000 0x000000000 0x000000	0x000003F 0x000003F 0x000003F 0x000003F 0x000003F 0x00000001 0x0000000 0x0000000 0x0000000 0x0000000	Commonwealth Comm
0-00000004 0-00000004 0-00000004 0-00000005 0-00000005 0-00000008 0-00000008 0-00000000 0-00000000		0x1C004121 0x1C004122 0x1C004123 0x1C004143 0x1C004143 0x1C00000040 0x1C005163 0x000000000 0x00000000 0x000000000 0x000000	เพิ่มโ.0003F เพิ่มโ.0003F เพิ่มโ.0003F เพิ่มโ.0003F เพิ่มโ.00000040 เพิ่มโ.0000000 เพิ่มโ.0000000 เพิ่มโ.0000000 เพิ่มโ.00000000 เพิ่มโ.00000000 เพิ่มโ.00000000 เพิ่มโ.00000000 เพิ่มโ.00000000 เพิ่มโ.000000000 เพิ่มโ.000000000000000000000000000000000000		CADDO00000000000000000000000000000000000
0-00000004 0-00000004 0-00000004 0-00000005 0-00000005 0-00000007 0-00000008 0-000000000 0-0000000000		0x1C004121 0x1C004122 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C0000004 0x00000000 0x00000000 0x00000000	เพิ่มโ.0003F เพิ่มโ.0003F เพิ่มโ.0003F เพิ่มโ.0003F เพิ่มโ.00000040 เพิ่มโ.0000000 เพิ่มโ.0000000 เพิ่มโ.0000000 เพิ่มโ.0000000 เพิ่มโ.00000000 เพิ่มโ.00000000 เพิ่มโ.00000000 เพิ่มโ.00000000 เพิ่มโ.000000000000000000000000000000000000		Commons Comm
0-000000004 0-00000004 0-00000005 0-00000005 0-00000007 0-00000007 0-00000000 0-00000000		0x1C004121 0x1C004122 0x1C004123 0x1C004143 0x1C004143 0x1C00000040 0x1C003C163 0x00000000 0x00000000 0x000000000 0x000000	0x01C0003F 0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C000000 0x00C000000000000000000000	0x0000003F 0x000003F 0x000003F 0x000003F 0x0000001 0x00000001 0x00000000 0x00000000	Commonwealth Comm
0-000000004 0-00000004 0-00000005 0-00000005 0-00000007 0-00000007 0-00000000 0-00000000		0x1C004121 0x1C004122 0x1C004123 0x1C004143 0x1C004143 0x1C00000040 0x1C004163 0x000000000 0x00000000000000000000000	0x01C0003F 0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C000000 0x00C000000 0x00C000000 0x00C000000 0x00C0000000 0x00C00000000	0x0000003F 0x000003F 0x000003F 0x000003F 0x0000003F 0x00000001 0x00000000 0x00000000 0x00000000	Colonion
0-00000004 0-00000004 0-00000004 0-00000005 0-00000005 0-00000007 0-00000000 0-0000000000		0x1C004121 0x1C004122 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C00000000 0x1C00000000 0x00000000 0x00000000 0x0000000	เพิ่มโ.0003F เพิ่มโ.0003F เพิ่มโ.0003F เพิ่มโ.0003F เพิ่มโ.0000000 เพิ่มโ.0000000 เพิ่มโ.0000000 เพิ่มโ.0000000 เพิ่มโ.0000000 เพิ่มโ.0000000 เพิ่มโ.0000000 เพิ่มโ.0000000 เพิ่มโ.00000000 เพิ่มโ.00000000 เพิ่มโ.0000000000 เพิ่มโ.000000000000000000000000000000000000	0x0000003F 0x000003F 0x000003F 0x000003F 0x0000001 0x00000001 0x00000000 0x00000000	Commonwealth Comm
0-000000004 0-00000004 0-00000005 0-00000005 0-00000007 0-00000007 0-00000000 0-00000000		0x1C004121 0x1C004122 0x1C004123 0x1C004143 0x1C004143 0x1C00000040 0x1C004163 0x000000000 0x00000000000000000000000	0x01C0003F 0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C000000 0x00C000000 0x00C000000 0x00C000000 0x00C0000000 0x00C00000000	0x0000003F 0x000003F 0x000003F 0x000003F 0x0000003F 0x00000001 0x00000000 0x00000000 0x00000000	Colonion
0-000000004 0-00000004 0-00000005 0-00000005 0-00000007 0-00000007 0-00000000 0-00000000		0x1C004121 0x1C004122 0x1C004123 0x1C004143 0x1C004143 0x1C00000040 0x1C004163 0x000000000 0x000000000 0x00000000000	0x01C0003F 0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C000000 0x00C000000 0x00C000000 0x00C000000 0x00C0000000 0x00C00000000	0x0000003F 0x000003F 0x000003F 0x000003F 0x0000001 0x00000001 0x00000000 0x00000000	Colonion
0-000000004 0-00000004 0-00000005 0-00000005 0-00000007 0-00000007 0-00000000 0-00000000		0x1C004121 0x1C004122 0x1C004123 0x1C004143 0x1C004143 0x1C00000040 0x1C004163 0x000000000 0x00000000000000000000000	0x01C0003F 0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C000000 0x00C000000 0x00C000000 0x00C000000 0x00C0000000 0x00C00000000	0x0000003F 0x000003F 0x000003F 0x000003F 0x0000001 0x00000001 0x00000000 0x00000000	Colonion
0-000000004 0-00000004 0-00000004 0-00000005 0-00000005 0-00000007 0-00000008 0-000000000 0-0000000000		0x1C004121 0x1C004122 0x1C004123 0x1C004143 0x1C004143 0x1C004143 0x1C00000000 0x1C00000000 0x00000000 0x00000000 0x0000000	0x01C0003F 0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C000000 0x00C000000 0x00C000000 0x00C000000 0x00C00000000	0x0000003F 0x000003F 0x000003F 0x000003F 0x0000001 0x00000001 0x00000000 0x00000000	Colonion
0-000000004 0-00000004 0-00000004 0-00000005 0-00000005 0-00000007 0-00000007 0-00000008 0-00000008 0-00000008 0-00000008 0-00000000		0x1C004121 0x1C004122 0x1C004123 0x1C004143 0x1C004143 0x1C00000040 0x1C004163 0x000000000 0x00000000000000000000000	0x01C0003F 0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C000000 0x00C000000 0x00C000000 0x00C000000 0x00C0000000 0x00C00000000	0x0000003F 0x000003F 0x000003F 0x000003F 0x0000001 0x00000001 0x00000000 0x00000000	Colonion
		0x1C004121 0x1C004122 0x1C004123 0x1C004143 0x1C004143 0x1C00000040 0x1C004163 0x000000000 0x00000000000000000000000	OxD (CO003F OxD (0x0000003F 0x000003F 0x000003F 0x000003F 0x0000001 0x00000001 0x00000000 0x00000000	Colonion
0-000000004 0-00000004 0-00000004 0-00000005 0-00000005 0-00000007 0-00000000 0-0000000000		0x1C004121 0x1C004122 0x1C004123 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x00000000 0x00000000 0x00000000 0x000000	เพิ่มโ.0003F (พมิโ.0003F (พมิโ.0003F (พมิโ.0003F (พมิโ.0003F (พมิโ.0003F (พมิโ.0003F (พมิโ.0003F (พมิโ.000000 (พมิโ.0000000 (พมิโ.0000000 (พมิโ.0000000 (พมิโ.0000000 (พมิโ.0000000 (พมิโ.0000000 (พมิโ.0000000 (พมิโ.00000000 (พมิโ.00000000 (พมิโ.0000000000 (พมิโ.000000000 (พมิโ.000000000000000000000000000000000000	0x0000003F 0x000003F 0x000003F 0x000003F 0x0000001 0x00000001 0x00000000 0x00000000	Colonion
0-000000004 0-00000004 0-00000004 0-00000005 0-00000005 0-00000007 0-00000000 0-0000000000		0x1C004121 0x1C004122 0x1C004123 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x00000000 0x00000000 0x00000000 0x000000	เพิ่มโ.0003F (พมิโ.0003F (พมิโ.0003F (พมิโ.0003F (พมิโ.0003F (พมิโ.0003F (พมิโ.0003F (พมิโ.0003F (พมิโ.000000 (พมิโ.0000000 (พมิโ.0000000 (พมิโ.0000000 (พมิโ.0000000 (พมิโ.0000000 (พมิโ.0000000 (พมิโ.00000000 (พมิโ.00000000 (พมิโ.00000000 (พมิโ.00000000000 (พมิโ.000000000000000000000000000000000000	0x0000003F 0x000003F 0x000003F 0x000003F 0x0000001 0x00000001 0x00000000 0x00000000	Colonion
		0x1C004121 0x1C004122 0x1C004123 0x1C004143 0x1C004143 0x1C00000040 0x1C004163 0x000000000 0x00000000000000000000000	OxD (COOO3F OxD (COOO03F OxD (COOO03F OxD (COOO03F OxD (COOO00000 OxD (COOO000000 OxD (COOO0000000 OxD (COOO0000000000000000000000000000000000	0x0000003F 0x000003F 0x000003F 0x000003F 0x0000001 0x00000001 0x00000000 0x00000000	Colonion
		0x1C004121 0x1C004122 0x1C004123 0x1C004143 0x1C004143 0x1C00000040 0x1C004163 0x000000000 0x000000000 0x000000001 0x00000001 0x00000000	OxD (COOO3F OxD (COOO03F OxD (COOO03F OxD (COOO03F OxD (COOO03F OxD (COOO03F OxD (COOO0000 OxD (COOO00000 OxD (COOO00000 OxD (COOO00000 OxD (COOO000000 OxD (COOO000000 OxD (COOO0000000 OxD (COOO00000000 OxD (COOO0000000000000000000000000000000000	0x0000003F 0x000003F 0x000003F 0x000003F 0x0000001 0x00000001 0x00000000 0x00000000	Colonion
0-000000004 0-00000004 0-00000004 0-00000005 0-00000005 0-00000007 0-00000000 0-0000000000		0x1C004121 0x1C004122 0x1C004123 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x00000000 0x00000000 0x00000000 0x000000	0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C00000 0x00C00000 0x00C00000 0x00C00000 0x00C00000 0x00C00000 0x00C000000 0x00C000000 0x00C00000000	0x0000003F 0x000003F 0x000003F 0x000003F 0x0000001 0x00000001 0x00000000 0x00000000	Colonion
		0x1C004121 0x1C004122 0x1C004123 0x1C004143 0x1C004143 0x1C00000040 0x1C004163 0x000000000 0x000000000 0x000000001 0x00000001 0x00000000	OxD (COOO3F OxD (COOO03F OxD (COOO03F OxD (COOO03F OxD (COOO03F OxD (COOO03F OxD (COOO0000 OxD (COOO00000 OxD (COOO00000 OxD (COOO00000 OxD (COOO000000 OxD (COOO000000 OxD (COOO0000000 OxD (COOO00000000 OxD (COOO0000000000000000000000000000000000	0x0000003F 0x000003F 0x000003F 0x000003F 0x0000001 0x00000001 0x00000000 0x00000000	Colonion
0-000000004 0-00000004 0-00000004 0-00000005 0-00000005 0-00000007 0-00000007 0-00000008 0-00000008 0-00000008 0-00000008 0-00000000		0x1C004121 0x1C004122 0x1C004123 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C0000000 0x1C00000000 0x1C00000000 0x1C00000000 0x1C00000000 0x1C00000000 0x1C00000000 0x1C0000000000	0x01C0003F 0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C00000 0x00C00000 0x00C000000 0x00C000000 0x00C000000 0x00C0000000 0x00C00000000	0x0000003F 0x000003F 0x000003F 0x000003F 0x0000001 0x00000001 0x00000000 0x00000000	Colonion
0-000000004 0-00000004 0-00000004 0-00000005 0-00000005 0-00000007 0-00000008 0-00000000 0-0000000000		0x1C004121 0x1C004122 0x1C004123 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x00000000 0x00000000 0x000000000 0x000000	0x01C0003F 0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C00000 0x00C00000 0x00C00000 0x00C00000 0x00C00000 0x00C00000 0x00C000000 0x00C000000 0x00C00000000	0x0000003F 0x000003F 0x000003F 0x000003F 0x0000001 0x00000001 0x00000000 0x00000000	Colonion
0.00000004 0.00000004 0.00000004 0.00000005 0.00000005 0.00000007 0.00000008 0.00000008 0.00000008 0.00000008 0.00000000		0x1C004121 0x1C004122 0x1C004123 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x00000000 0x00000000 0x000000000 0x000000	เพิ่มโ.0003F (พมิโ.0003F (พมิโ.0003F (พมิโ.0003F (พมิโ.0003F (พมิโ.0003F (พมิโ.0003F (พมิโ.0003F (พมิโ.000000 (พมิโ.0000000 (พมิโ.00000000 (พมิโ.00000000 (พมิโ.00000000 (พมิโ.00000000 (พมิโ.000000000000 (พมิโ.000000000000000000000000000000000000	0x0000003F 0x000003F 0x000003F 0x000003F 0x0000001 0x00000001 0x00000000 0x00000000	Colonion
		0x1C004121 0x1C004122 0x1C004123 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C0000000 0x1C00000000 0x1C00000000 0x1C00000000 0x1C00000000 0x1C0000000000	0x01C0003F 0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C00000 0x00C00000 0x00C00000 0x00C00000 0x00C00000 0x00C000000 0x00C000000 0x00C000000 0x00C000000 0x00C0000000 0x00C00000000	0x0000003F 0x000003F 0x000003F 0x000003F 0x0000001 0x00000001 0x00000000 0x00000000	Colonion

CPU Thread 2

MSR 0x00000606		0x0000000	0x000A0E03		
MSR 0x00000601 MSR 0x00000610		0x00000000 0x004287F8	0x80000000 0x001087F8		
MSR 0x00000611		0x00000000	0xB7965911		
MSR 0x00000639 MSR 0x00000641		0x00000000 0x00000000	0xA1BF8AF0 0x026DF6A9		
MSR 0x00000619 MSR 0x00000614		0x00000000 0x00000000	0x1082DA8E 0x000002F8		
MSR 0x00000648		0x00000000	0x00000025		
MSR 0x00000649 MSR 0x0000064A		0x00000000 0x00000000	0x00000000 0x00000000		
MSR 0x00000198 MSR 0x00000199		0x00002819 0x00000000	0x00002B00 0x00002500		
APIC ID Topology		Processor ID 0, Core ID 3, Thread ID 0		6	
Cache descriptor	Level 1, D, 32 KB, 2 thread(s)	Processor ID 0, Core ID 3, Till ead ID 0			
Cache descriptor Cache descriptor	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)				
Cache descriptor	Level 3, U, 9 MB, 16 thread(s)				
CPUID 0x00000000		0x00000016	0x756E6547	0x6C65746F	0x49656E69
0x00000001		0x000906ED	0x06100800	0xFFFAF38F	0xBFEBFBFF
0x00000002 0x00000003		0x76036301 0x00000000	0x00F0B6FF 0x00000000	0x0000000 0x00000000	0x00C30000 0x00000000
0x00000004 0x00000004		0x1C004121 0x1C004122	0x01C0003F 0x01C0003F	0x0000003F 0x0000003F	0x00000000 0x00000000
0x00000004 0x00000004		0x1C004143 0x1C03C163	0x00C0003F 0x02C0003F	0x000003FF 0x00002FFF	0x00000000 0x00000006
0x00000005		0x00000040	0x00000040	0x00000003	0x00042120
0x00000006 0x00000007		0x000007F3 0x00000000	0x00000002 0x009C67A9	0x00000001 0x00000000	0x00000000 0xBC000400
0x00000008 0x00000009		0x00000000 0x00000000	0x00000000 0x00000000	0x00000000 0x00000000	0x00000000 0x00000000
0x0000000A 0x0000000B		0x07300804 0x00000001	0x00000000 0x00000001	0x00000000 0x00000100	0x00000603 0x00000006
0x0000000B 0x0000000C		0x00000004 0x00000000	0x00000006 0x00000000	0x00000201 0x00000000	0x00000006 0x00000000
0x0000000D		0x0000001F	0x00000440	0x00000440	0x00000000
0x0000000D 0x0000000D		0x000000F 0x0000100	0x000003C0 0x00000240	0x00000000 0x00000000	0x00000000 0x00000000
0x0000000D 0x0000000D		0x00000040 0x00000040	0x000003C0 0x00000400	0x0000000 0x0000000	0x00000000 0x00000000
0x0000000E 0x0000000F		0x00000000 0x00000000	0x00000000 0x00000000	0x00000000 0x00000000	0x00000000 0x00000000
0x00000010		0x00000000 0x00000000	0x00000000 0x00000000	0x0000000	0x00000000
0x00000011 0x00000012		0x00000000	0x00000000	0x00000000 0x00000000	0x00000000 0x00000000
0x00000013 0x00000014		0x00000000 0x00000001	0x00000000 0x000000F	0x00000000 0x00000003	0x00000000 0x00000000
0x00000015 0x00000016		0x00000002 0x00000000	0x00000134 0x00000000	0x00000000 0x00000000	0x00000000 0x00000000
0x40000000		0x4000000C	0x7263694D	0x666F736F	0x76482074
0x40000001 0x40000002		0x31237648 0x0000585D	0x00000000 0x000A0000	0x00000000 0x00000002	0x00000000 0x0000097C
0x40000003 0x40000004		0x00003FFF 0x00060D1C	0x002BB9FF 0x00000000	0x00000022 0x0000002E	0x7DFEFBF6 0x00000000
0x40000005 0x40000006		0x00000400 0x007200AF	0x00000400 0x00000027	0x0000045C 0x00000000	0x00000000 0x00000000
0x40000007		0x80000007	0x0000000B	0x00000000	0x00000000
0x40000008 0x40000009		0x00000000 0x00000000	0x00000000 0x00000000	0x00000000 0x00000000	0x00000000 0x00000000
0x4000000A 0x4000000B		0x0000000 0x001FF002	0x00000000 0x00000000	0x00000000 0x00000000	0x00000000 0x00000000
0x4000000C 0x80000000		0x00000000 0x8000008	0x00000000 0x0000000	0x00000000 0x00000000	0x00000000 0x00000000
0x80000001		0x00000000	0x00000000	0x00000121	0x2C100800
0x80000002 0x80000003		0x65746E49 0x35692029	0x2952286C 0x3036392D	0x726F4320 0x43204B30	0x4D542865 0x40205550
0x80000004 0x80000005		0x372E3320 0x00000000	0x7A484730 0x00000000	0x00000000 0x00000000	0x00000000 0x00000000
0x80000006 0x80000007		0x00000000 0x00000000	0x00000000 0x00000000	0x01006040 0x00000000	0x00000000 0x00000100
0x80000008		0x00003027	0x00000000	0x0000000	0x00000000
MSR 0x0000001B		0x00000000	0xFEE00C00		
MSR 0x00000035 MSR 0x000001A0		0x00000000 0x00000000	0x00060006 0x00850889		
MSR 0x00000770 MSR 0x00000774		0x00000000 0x0000019E	0x0000001 0x0000FF25		
MSR 0x000000CE MSR 0x00000017		0x08080838 0x00040000	0xF1012500 0x00000000		
MSR 0x000000C1 MSR 0x000000C2		0x0000FFFF 0x00000055	0xFFF1F67D 0xC705A802		
MSR 0x000000C3		0x000000C8	0x23038AFC		
MSR 0x000000C4 MSR 0x00000186		0x0000016F 0x00000000	0xAB1F874F 0x0051003C		
MSR 0x00000187 MSR 0x000001AD		0x00000000 0x2B2B2B2C	0x0041FF88 0x2C2D2D2E		
MSR 0x00000194 MSR 0x0000019A		0x00000000 0x00000000	0x000F0000 0x0000000		
MSR 0x0000019C		0x00000000 0x00000000	0x882B0008 0x00641000		
MSR 0x000001A2 MSR 0x000001A4		0x00000000	0x00000000		
MSR 0x000001B1 MSR 0x000001FC		0x00000000 0x00000000	0x882A0008 0x0038005D		
MSR 0x00000606 MSR 0x00000601		0x00000000 0x00000000	0x000A0E03 0x80000000		
MSR 0x00000610 MSR 0x00000611		0x004287F8	0x001D87F8		
MSR 0x00000639		0x00000000 0x00000000	0xB79682F5 0xA1BFB2ED		
MSR 0x00000641 MSR 0x00000619		0x00000000 0x00000000	0x026DF6A9 0x1082DCF5		
MSR 0x00000614 MSR 0x00000648		0x0000000 0x0000000	0x000002F8 0x00000025		
MSR 0x00000649 MSR 0x0000064A		0x00000000 0x00000000	0x00000000 0x00000000		
MSR 0x00000198		0x0000282F	0x00002B00		
MSR 0x00000199		0x00000000	0x00002500		
APIC ID				8	
Topology Cache descriptor	Level 1, D, 32 KB, 2 thread(s)	Processor ID 0, Core ID 4, Thread ID 0			
Cache descriptor Cache descriptor	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)				
Cache descriptor	Level 3, U, 9 MB, 16 thread(s)				
CPUID					
0x00000000 0x00000001		0x00000016 0x000906ED	0x756E6547 0x08100800	0x6C65746E 0xFFFAF38F	0x49656E69 0xBFEBFBFF
0x00000002 0x00000003		0x76036301 0x00000000	0x00F0B6FF 0x00000000	0x00000000 0x00000000	0x00C30000 0x00000000
0x00000004		0x1C004121	0x01C0003F	0x0000003F	0x00000000
0x00000004 0x00000004		0x1C004122 0x1C004143	0x01C0003F 0x00C0003F	0x000003F 0x000003FF	0x00000000 0x00000000
0x00000004 0x00000005		0x1C03C163 0x00000040	0x02C0003F 0x00000040	0x00002FFF 0x00000003	0x00000006 0x00042120
0x00000006 0x00000007		0x000007F3 0x00000000	0x00000002 0x009C67A9	0x00000001 0x00000000	0x00000000 0xBC000400
0x00000008		0x00000000	0x00000000	0×00000000	0x00000000
0x00000009 0x0000000A		0x00000000 0x07300804	0x00000000 0x00000000	0x00000000 0x00000000	0x00000000 0x00000603
0x0000000B 0x0000000B		0x00000001 0x00000004	0x00000001 0x00000006	0x00000100 0x00000201	0x00000008 0x00000008
0x0000000C		0x00000000	0x00000000	0x00000000	0x00000000

CPU Thread 3

CPU Thread 4

0x0000000D		0x0000001F	0x00000440	0x00000440	0x00000000
0x000000D 0x000000D		0x000000F 0x00000100	0x000003C0 0x00000240	0x0000000 0x0000000	0x00000000 0x00000000
0x0000000D		0x00000040	0x000003C0	0x0000000	0x00000000
0x0000000D		0x00000040	0x00000400	0x00000000	0x00000000
0x0000000E 0x0000000F		0x00000000 0x00000000	0x00000000 0x00000000	0x00000000 0x00000000	0x00000000 0x00000000
0x00000001		0x0000000	0x00000000	0x0000000	0x00000000
0x00000011		0x00000000	0x00000000	0x00000000	0x00000000
0x00000012 0x00000013		0x00000000 0x00000000	0x00000000 0x0000000	0x0000000 0x0000000	0x00000000 0x00000000
0x00000014		0x00000001	0x0000000F	0x00000003	0x00000000
0x00000015		0x00000002	0x00000134	0x0000000	0x00000000
0x00000016 0x40000000		0x00000000 0x4000000C	0x00000000 0x7263694D	0x00000000 0x666F736F	0x00000000 0x76482074
0x400000001		0x31237648	0x00000000	0x0000000	0x00000000
0x40000002		0x0000585D	0x000A0000	0x00000002	0x0000097C
0x40000003 0x40000004		0x00003FFF 0x00060D1C	0x002BB9FF 0x0000000	0x00000022 0x0000002E	0x7DFEFBF6 0x00000000
0x40000005		0x00000400	0x00000400	0x0000045C	0x00000000
0x40000006		0x007200AF	0x00000027	0x00000000	0x00000000
0x40000007 0x40000008		0x80000007 0x0000000	0x0000000B 0x0000000	0x00000000 0x00000000	0x00000000 0x00000000
0x40000009		0x00000000	0x00000000	0x00000000	0x00000000
0x4000000A		0x00000000 0x001FF002	0x00000000	0x0000000	0x00000000
0x4000000B 0x4000000C		0x0001FF002 0x00000000	0x00000000 0x0000000	0x00000000 0x00000000	0x00000000 0x00000000
0x80000000		0x80000008	0x00000000	0x00000000	0x00000000
0x80000001 0x80000002		0x00000000 0x65746E49	0x00000000 0x2952286C	0x00000121 0x726F4320	0x2C100800 0x4D542865
0x80000002		0x35692029	0x3036392D	0x43204B30	0x4D342863 0x40205550
0x80000004		0x372E3320	0x7A484730	0x00000000	0x00000000
0x80000005 0x80000006		0x00000000 0x00000000	0x00000000 0x00000000	0x00000000 0x01006040	0x00000000 0x00000000
0x80000007		0x00000000	0x00000000	0x00000000	0x00000100
0x80000008		0x00003027	0x00000000	0x00000000	0x00000000
MSR 0x0000001B		0x00000000	0xFEE00C00		
MSR 0x00000035		0x00000000	0x00060006		
MSR 0x000001A0 MSR 0x00000770		0x00000000 0x00000000	0x00850889 0x00000001		
MSR 0x00000774		0x0000019E	0x0000FF25		
MSR 0x000000CE		0x08080838	0xF1012500		
MSR 0x00000017 MSR 0x000000C1		0x00040000 0x0000FFFF	0x00000000 0xFFFB1FC9		
MSR 0x000000C2		0x00000050	0xB76D7B05		
MSR 0x000000C3		0x000000C9	0x7F9C600D		
MSR 0x000000C4 MSR 0x00000186		0x00000159 0x00000000	0x305B84F8 0x0051003C		
MSR 0x00000187		0x00000000	0x0041FF88		
MSR 0x000001AD MSR 0x00000194		0x2B2B2B2C 0x00000000	0x2C2D2D2E 0x000F0000		
MSR 0x00000194 MSR 0x0000019A		0x0000000 0x0000000	0x000F0000 0x00000000		
MSR 0x0000019C		0x00000000	0x882C0008		
MSR 0x000001A2 MSR 0x000001A4		0x00000000 0x0000000	0x00641000 0x0000000		
MSR 0x000001A4		0x00000000	0x88260008		
MSR 0x000001FC		0x00000000	0x0038005D		
MSR 0x00000606 MSR 0x00000601		0x00000000 0x0000000	0x000A0E03 0x8000000		
MSR 0x00000610		0x004287F8	0x001D87F8		
MSR 0x00000611		0x00000000	0xB796A5D8		
MSR 0x00000639 MSR 0x00000641		0x00000000 0x00000000	0xA1BFD329 0x026DF6A9		
MSR 0x00000619		0x00000000	0x1082DF08		
MSR 0x00000614 MSR 0x00000648		0x00000000 0x0000000	0x000002F8 0x00000025		
MSR 0x00000649		0x00000000	0x00000025 0x00000000		
MSR 0x0000064A		0x00000000	0x00000000		
MSR 0x00000198		0x00002793	0x00002B00		
MSR 0x00000198 MSR 0x00000199					
MSR 0x00000199		0x00002793	0x00002800 0x00002500		
MSR 0x00000199 APIC ID		0x00002793 0x00000000	0x00002800 0x00002500	10	
MSR 0x00000199	Level 1, D, 32 KB, 2 thread(s)	0x00002793	0x00002800 0x00002500	10	
MSR 0x0000199 APIC ID Topology Cache descriptor Cache descriptor	Level 1, I, 32 KB, 2 thread(s)	0x00002793 0x00000000	0x00002800 0x00002500	10	
MSR 0x0000199 APIC ID Topology Cache descriptor Cache descriptor Cache descriptor	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00002793 0x00000000	0x00002800 0x00002500	10	
MSR 0x0000199 APIC ID Topology Cache descriptor Cache descriptor Cache descriptor Cache descriptor	Level 1, I, 32 KB, 2 thread(s)	0x00002793 0x00000000	0x00002800 0x00002500	10	
MSR 0x0000199 APIC ID Topology Cache descriptor Cache descriptor Cache descriptor Cache descriptor Cache descriptor Cache descriptor	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00002793 0x0000000 Processor ID 0, Core ID 5, Thread ID 0	0x00002800 0x00002500		0~40555550
MSR 0x0000199 APIC ID Topology Cache descriptor Cache descriptor Cache descriptor Cache descriptor	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00002793 0x00000000	0x00002800 0x00002500	I.O Ox6C65746E OxFFFAF38F	0x49656E69 0xBFEBFBFF
MSR 0x00000199 APIC ID Topology Cache descriptor Could descriptor Could descriptor Could descriptor COUNTY CO	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00002793 0x00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x000000ED 0x76036301	0x00002800 0x00002500 : : 0x756E6547 0x0400800 0x00F086FF	0x6C65746E 0xFFF4738F 0x00000000	0xBFEBFBFF 0x00C30000
MSR 0x00000199 APIC ID Topology Cache descriptor CPUID 0x0000000 0x000000000 0x0000000000000	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00002793 0x00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x76036301 0x0000000	0x00002800 0x00002500 :: 0x756E6547 0x0A100800 0x007086FF 0x00000000	0x6C65746E 0xFFFA738F 0x00000000 0x00000000	0xBFEBFBFF 0x00C30000 0x000000000
MSR 0x00000199 APIC ID Topology Cache descriptor Could descriptor Could descriptor Could descriptor COUNTY CO	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00002793 0x00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x000000ED 0x76036301	0x00002800 0x00002500 : : 0x756E6547 0x0400800 0x00F086FF	0x6C65746E 0xFFF4738F 0x00000000	0xBFEBFBFF 0x00C30000
MSR 0x00000199 APIC ID Topology Cache descriptor CACHE (1997) 0x00000000000000000000000000000000000	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00002793 0x00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x00000000 0x76036301 0x0000000 0x1C004121 0x1C004121 0x1C004122 0x1C004143	0x00002800 0x00002500 :: 0x756E6547 0x04000000 0x00F086FF 0x00000000 0x01C0003F 0x01C0003F 0x01C0003F	0x6C65746E 0xFFFA738F 0x00000000 0x00000000 0x0000003F 0x0000003F	0x8FEBFBFF 0x00C30000 0x00000000 0x00000000 0x00000000 0x000000
MSR 0x00000199 APIC ID Topology Cache descriptor Could 0x0000000 0x00000000 0x000000000000000	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00002793 0x00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x000906ED 0x76038301 0x00000000 0x1C004121 0x1C004122	0x00002800 0x00002500 :: 0x756E6547 0x0A100800 0x0F086FF 0x00000000 0x0L0003F	Dx6C65746E DxFFFAT38F Ux00000000 0x000000000 0x0000003F	0xBFEBFBFF 0x00C30000 0x00000000 0x00000000 0x000000000
MSR 0x00000199 APIC ID Topolegy Cache descriptor Cache descriptor Cache descriptor Cache descriptor Cache descriptor Cache descriptor Code descriptor Code descriptor CODE (CACHE DESCRIPTION CACHE DESCRIPTION C	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00002793 0x00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x00000000 0x1C004121 0x1C004122 0x1C004143 0x1C005163 0x00000000 0x000000000000000000000000	0x00002800 0x00002500 2x756E6547 0x04100800 0x00F086FF 0x00000000 0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003F	0x6C65746E 0xfFFA738F 0x00000000 0x000000000 0x0000003F 0x000003F 0x000003F 0x0000003F 0x0000000000	0x8FEBFBFF 0x00C30000 0x00000000 0x00000000 0x00000000 0x000000
MSR 0x00000199 APIC ID Topology Cache descriptor CO000000000000000000000000000000000000	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00002793 0x00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x00000000 0x76036301 0x0000000 0x1C004121 0x1C004121 0x1C004122 0x1C004143 0x1C031.63 0x00000040 0x0000075 0x00000000	0x00002800 0x00002500 :: 0x756E6547 0x0400800 0x000080F 0x00000000 0x010003F 0x010003F 0x020003F 0x020003F 0x020003F 0x020003F 0x020003F 0x020003F 0x020003F 0x020003F	0x6C65746E 0xFFFA738F 0x00000000 0x00000000 0x0000003F 0x000003F 0x000003F 0x000003F 0x0000000000	0xBFEBFBFF 0x00C30000 0x00000000 0x00000000 0x00000000 0x000000
MSR 0x00000199 APIC ID Topology Cache descriptor Cache descriptor Cache descriptor Cache descriptor Cache descriptor Cache descriptor Council descriptor Council descriptor CPUID 0x00000000 0x000000000 0x000000000 0x000000	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00002793 0x00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x00000000 0x16004121 0x1C004121 0x1C004121 0x1C004123 0x1C05163 0x0000000 0x00000000 0x00000000000000	0x00002800 0x00002500 :: 0x756E6547 0x04100800 0x001086FF 0x00000000 0x01C0003F 0x01C0003F 0x02C0003F 0x02C0003F 0x02C0003F 0x02C0003F 0x02C0003F 0x00000000000000000000000000000000	0x6C65746E 0xFFFA738F 0x00000000 0x00000000 0x0000003F 0x000003F 0x000003F 0x000003FF 0x000003F 0x0000000000	0x8FEBFBFF 0x00C30000 0x00000000 0x00000000 0x00000000 0x000000
MSR 0x00000199 APIC ID Topology Cache descriptor CACHE d	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00002793 0x00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x00000000 0x76036301 0x0000000 0x1C004121 0x1C004121 0x1C004122 0x1C004143 0x1C004123 0x00000000 0x00000000 0x0000000000000	0x00002800 0x00002500 :: 0x75566547 0x04100800 0x00086FF 0x00000000 0x01C0003F 0x01C0003F 0x01C0003F 0x00000000 0x000000000 0x0000000000	0x6C65746E 0xFFA438F 0x00000000 0x000000000 0x0000003F 0x0000003F 0x0000003F 0x0000000000	0xBFEBFBFF 0x00C30000 0x00000000 0x00000000 0x00000000 0x000000
MSR 0x00000199 APIC ID Topology Cache descriptor Cache descriptor Cache descriptor Cache descriptor Cache descriptor Cache descriptor Council descriptor Council descriptor CPUID 0x00000000 0x000000000 0x000000000 0x000000	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00002793 0x00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x00000000 0x16004121 0x1C004121 0x1C004121 0x1C004123 0x1C05163 0x0000000 0x00000000 0x00000000000000	0x00002800 0x00002500 :: 0x756E6547 0x04100800 0x001086FF 0x00000000 0x01C0003F 0x01C0003F 0x02C0003F 0x02C0003F 0x02C0003F 0x02C0003F 0x02C0003F 0x00000000000000000000000000000000	0x6C65746E 0xFFFA738F 0x00000000 0x00000000 0x0000003F 0x000003F 0x000003F 0x000003FF 0x000003F 0x0000000000	0x8FEBFBFF 0x00C30000 0x00000000 0x00000000 0x00000000 0x000000
MSR 0x00000199 APIC ID Topology Cache descriptor Common descriptor CPUID 0x00000000 0x000000000 0x000000000 0x000000	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00002793 0x00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x000006ED 0x76036301 0x00000000 0x1C004121 0x1C004121 0x1C004123 0x1C004143 0x1C03C163 0x00000000 0x000000000 0x000000000000	0x00002800 0x00002500 :: 0x756E6547 0x6100800 0x007088FF 0x0010003F 0x010003F 0x000000000 0x00000000000000000000	0x6C65746E 0xFFFA738F 0x00000000 0x000000000 0x0000003F 0x000003F 0x000003F 0x0000001 0x0000001 0x00000000 0x00000000	0x8FEBFBFF 0x00C30000 0x00000000 0x00000000 0x00000000 0x000000
MSR 0x00000199 APIC ID Topology Cache descriptor CACHE d	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00002793 0x00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x00000016 0x00000000 0x1C004121 0x1C004121 0x1C004123 0x1C03163 0x00000000 0x000000000 0x000000000000	0x00002800 0x00002500 :: 0x756E6547 0x0400800 0x007086FF 0x00000000 0x010003F 0x01C0003F 0x01C0003F 0x02C0003F 0x00C0003F 0x00C000000000000000000000000000000000	0x6C65746E 0xFFR-738F 0x0000000 0x0000003F 0x000003F 0x000003F 0x000000101 0x000000000 0x000000000000	0x8FEBFBFF 0x00C30000 0x00000000 0x00000000 0x00000000 0x000000
MSR 0x00000199 APIC ID Topology Cache descriptor Common descriptor CPUID 0x00000000 0x000000000 0x000000000 0x000000	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00002793 0x00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x00000016 0x00000000 0x1C004121 0x1C004121 0x1C004123 0x1C03163 0x00000000 0x00000000 0x0000000000000	0x00002800 0x00002500 :: 0x756E6547 0x6100800 0x007088FF 0x0010003F 0x010003F 0x000000000 0x00000000000000000000		0x8FEBFBFF 0x00C30000 0x00000000 0x00000000 0x00000000 0x000000
MSR 0x00000199 APIC ID Topology Cache descriptor Condemonocol 0x00000000 0x00000000 0x00000000 0x000000	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00002793 0x00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x00000000 0x76036301 0x00000000 0x1C004121 0x1C004121 0x1C004123 0x1C004143 0x1C005163 0x00000000 0x000000000000000000000000	0x00002800 0x00002500 :: 0x756E6547 0x6100800 0x60F088FF 0x60000000 0x000003F 0x010003F 0x010003F 0x000000000 0x00000000000000000000	Dx6C65746E UxFFFAT38F Ux00000000 0x00000000 0x0000003F 0x0000003F 0x0000001 0x00000001 0x000000000 0x00000000	0x8FEBFBFF 0x00C30000 0x000000000 0x000000000 0x00000000
MSR 0x00000199 APIC ID Topology Cache descriptor CPUID 0x00000000 0x000000000 0x000000000 0x000000	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00002793 0x00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x00000016 0x00000000 0x16004121 0x1C004121 0x1C004122 0x1C004123 0x1C004123 0x1C004120 0x1C004120 0x1C004121 0x1C004121 0x1C004120 0x1C004121 0x1C00000000 0x00000000000000000000000	0x00002800 0x00002500 :: 0x756E6547 0x0A100800 0x00F086FF 0x00000000 0x01C0003F 0x01C0003F 0x01C0003F 0x00C0003F 0x00C0003F 0x00C0001000000000000000000000000000000	0x6C65746E 0xFFR-738F 0x0000000 0x00000000 0x000003F 0x000003F 0x000000FF 0x00000000 0x000000000 0x00000000	0x8FEBFBF 0x00C30000 0x00000000 0x00000000 0x00000000 0x000000
MSR 0x00000199 APIC ID Topology Cache descriptor CPUID 0x00000000 0x000000000 0x000000000 0x000000	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00002793 0x00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x00000016 0x00000000 0x16004121 0x1C004121 0x1C004121 0x1C004123 0x1C004121 0x1C004123 0x1C004121 0x1C004121 0x1C004123 0x1C004121 0x1C004121 0x1C004121 0x1C004121 0x1C004121 0x1C004121 0x1C004121 0x1C00000000 0x00000000000000000000000	0x00002800 0x00002500 :: 0x756E6547 0x0A100800 0x00F086FF 0x00000000 0x01C0003F 0x01C0003F 0x01C0003F 0x00C0003F 0x00C000000000000000000000000000000000	0x6C65746E 0xFFA738F 0x00000000 0x000000000 0x0000003F 0x000003F 0x00000001 0x000000000 0x0000000000000	0x8FEBF8F 0x00C30000 0x000000000 0x00000000 0x00000000 0x000000
MSR 0x00000199 APIC ID Topology Cache descriptor Condition of the descriptor CPUID 0x00000000 0x000000000 0x000000000 0x000000	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00002793 0x00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x000005ED 0x76036301 0x00000000 0x1C004121 0x1C004121 0x1C004123 0x	0x00002800 0x00002500 :: 0x75666547 0x60100300 0x60100367 0x6010037 0x6010037 0x6010037 0x6010037 0x60100040 0x60000000 0x60000000 0x600000000 0x600000000	0x6C65746E 0xfFFAT38F 0x00000000 0x000000000 0x0000003F 0x0000003F 0x0000001 0x00000001 0x00000000 0x00000000	0.81EF18FF 0.00000000 0.000000000 0.000000000 0.000000
MSR 0x00000199 APIC ID Topology Cache descriptor CPUID 0x00000000 0x000000000 0x000000000 0x000000	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00002793 0x00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x00000016 0x00000000 0x16004121 0x1C004121 0x1C004121 0x1C004123 0x1C004121 0x1C004123 0x1C004121 0x1C004121 0x1C004123 0x1C004121 0x1C004121 0x1C004121 0x1C004121 0x1C004121 0x1C004121 0x1C004121 0x1C00000000 0x00000000000000000000000	0x00002800 0x00002500 :: 0x756E6547 0x0A100800 0x00F086FF 0x00000000 0x01C0003F 0x01C0003F 0x01C0003F 0x00C0003F 0x00C000000000000000000000000000000000	0x6C65746E 0xFFA738F 0x00000000 0x000000000 0x0000003F 0x000003F 0x00000001 0x000000000 0x0000000000000	0x8FEBF8F 0x00C30000 0x000000000 0x00000000 0x00000000 0x000000
MSR 0x00000199 APIC ID Topolegy Cache descriptor CACHE d	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00002793 0x00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x00000016 0x00000000 0x16004121 0x1C004121 0x1C004121 0x1C004121 0x1C004123 0x1C004121 0x1C0000000 0x000000000000000000000000	0x00002800 0x00002500 :: 0x756E6547 0x04100800 0x00F086FF 0x00000000 0x01C0003F 0x01C0003F 0x01C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C0003F 0x00C000000 0x000000000 0x000000000 0x0000000	0x6C65746E 0xFFA-F38F 0x00000000 0x000000000 0x0000003F 0x000003F 0x00000000 0x000000000 0x000000000 0x000000	DASERSES PER PRODUCTION OF THE
MSR 0x00000199 APIC ID Topology Cache descriptor Code	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00002793 0x00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x0000005ED 0x76036301 0x00000000 0x1C004121 0x1C004122 0x1C004123 0x	0x00002800 0x00002500 :: 0x756E6547 0x0A100800 0x001086F7 0x001080F7 0x0110003F 0x0110003F 0x0110003F 0x00100000 0x00000000 0x00000000 0x00000000	0x6C65746E 0xFFA438F 0x00000000 0x000000000 0x0000003F 0x0000003F 0x0000001 0x00000001 0x00000000 0x00000000	DASEERIBE DASEER
MSR 0x00000199 APIC ID Topolegy Cache descriptor CACHE d	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	Do.00002793 Do.00000000 Processor ID 0, Core ID 5, Thread ID 0 Do.00000016 Do.00000000 Do.0000000000 Do.0000000000	0x00002800 0x00002500 : : 0x756E6547 0x0A100800 0x0016986F 0x0016986F 0x00000000 0x00000000 0x00000000 0x000000	0x6C65746E 0xFFA458F 0x00000000 0x000000000 0x0000003F 0x0000003F 0x000000100 0x00000001 0x00000000 0x00000000	DASERSES PER PRODUCTION OF THE
MSR 0x00000199 APIC ID Topolegy Cache descriptor CPUID 0x00000000 0x000000000 0x000000000 0x000000	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	ია0002793 ია00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x00000016 0x00000000 0x16004121 0x1C004121 0x1C004121 0x1C004123 0x1C004123 0x1C004123 0x1C004123 0x1C004123 0x1C004123 0x1C004124 0x1C004125 0x1	0x00002800 0x00002500 :: 0x756E6547 0x0A100800 0x00F086FF 0x00000000 0x01C0003F 0x01C0003F 0x01C0003F 0x02C0003F 0x02C0003F 0x00C00000 0x00000000 0x00000000 0x00000000	0x6C65746E 0xFFA738F 0x00000000 0x000000000 0x0000003F 0x000003F 0x000003F 0x00000001 0x000000000 0x000000000 0x00000000	0.36 EBF BF F
MSR 0x00000199 APIC ID Topology Cache descriptor Common Cache Cache descriptor Common Cache Cach	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	Do.00002793 Do.00000000 Processor ID 0, Core ID 5, Thread ID 0 Do.00000016 Do.00000000 Do.0000000000 Do.0000000000	0x00002800 0x00002500 : : 0x756E6547 0x0A100800 0x0016986F 0x0016986F 0x00000000 0x00000000 0x00000000 0x000000	0x6C65746E 0xFFA458F 0x00000000 0x000000000 0x0000003F 0x0000003F 0x0000001 0x00000001 0x00000000 0x00000000	DASERSERSE DASERSERSE DASCONDING DASCONDON DAS
MSR 0x00000199 APIC ID Topolegy Cache descriptor Code	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	Do.00002793 Do.00002000 Processor ID 0, Core ID 5, Thread ID 0 Do.00000016 Do.00000000 Do.00000000 Do.000000000 Do.0000000000	0x00002800 0x00002500 : : 0x756E6547 0x0A10000 0x00F086F 0x0000000 0x00F086F 0x0000000 0x00F086F 0x00000000 0x00000000 0x00000000 0x000000	0x6C65746E 0xFFAF38F 0x00000000 0x000000000 0x0000003F 0x0000003F 0x00000001 0x00000001 0x000000000 0x00000000	DASERSERSE DASERSERSE DASCOCCO
MSR 0x00000199 APIC ID Topolegy Cache descriptor CPUID 0x00000000 0x000000000 0x000000000 0x000000	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	0x00002793 0x00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x00000016 0x00000000 0x16004121 0x1C004121 0x1C004123 0x1C004123 0x1C004123 0x1C004123 0x1C004123 0x1C004123 0x1C004123 0x1C004124 0x1C004124 0x1C004125 0x1C004125 0x1C004126 0x1C004126 0x1C004127 0x1C004127 0x1C004128 0x1C004128 0x1C004129 0x	0x00002800 0x00002500 :: 0x756E6547 0x0A100800 0x00F08EFF 0x00000000 0x01C0003F 0x01C0003F 0x01C0003F 0x02C0003F 0x02C0003F 0x00C000000 0x000000000 0x000000000 0x0000000	0x6C65746E 0xFFA738F 0x00000000 0x000000000 0x0000003F 0x0000003F 0x00000013 0x00000001 0x000000000 0x000000000 0x00000000	0.36 EBF BF F
MSR 0x00000199 APIC ID Topolegy Cache descriptor Code	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	Do.00002793 Do.00002000 Processor ID 0, Core ID 5, Thread ID 0 Do.00000016 Do.00000000 Do.00000000 Do.000000000 Do.0000000000	0x00002800 0x00002500 : : 0x756E6547 0x0A10000 0x00F086F 0x0000000 0x00F086F 0x0000000 0x00F086F 0x00000000 0x00000000 0x00000000 0x000000	0x6C65746E 0xFFAF38F 0x00000000 0x000000000 0x0000003F 0x0000003F 0x00000001 0x00000001 0x000000000 0x00000000	DASERSERSE DASERSERSE DASCOCCO
MSR 0x00000199 APIC ID Topolegy Cache descriptor Code d	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	Do00002793 Do00000000 Processor ID 0, Core ID 5, Thread ID 0 Do00000016 Do00000016 Do00000000 Do0000000000000000000000000	0x00002800 0x00002500 : : 0x756E6547 0x6A100800 0x60768FF 0x60800000 0x6076003F 0x6076000000 0x60760000000 0x60760000000000		DASERSER PER PE
MSR 0x00000199 APIC ID Topology Cache descriptor CPUID 0x00000000 0x00000000 0x000000000 0x000000	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	ია00002793 ია000000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x00000016 0x00000000 0x16004121 0x1C004121 0x1C004121 0x1C004123 0x1C004123 0x1C004123 0x1C004123 0x1C004123 0x1C004123 0x1C004123 0x1C004124 0x1C00000000 0x000000000 0x000000000000	0x70002800 0x00002500 :: 0x756E6547 0x04100800 0x0076BEF 0x00000000 0x010003F 0x010003F 0x010003F 0x020003F 0x020003F 0x020003F 0x02000000 0x00000000 0x00000000 0x00000000	0x6C65746E 0xFFFA738F 0x00000000 0x000000000 0x0000003F 0x0000003F 0x0000003F 0x0000003F 0x00000000 0x00000000 0x00000000 0x000000	0.36 EBF BF F
MSR 0x00000199 APIC ID Topology Cache descriptor CPUID 0x00000000 0x000000000 0x000000000 0x000000	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	ია00002793 ია000000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x00000016 0x00000000 0x16004121 0x1c004121 0x1c004123 0x1c0000000 0x0000000000000000000000000	0x70002800 0x00002500 :: 0x756E6547 0x04100800 0x0076BEFF 0x00000000 0x00000000 0x00000000 0x000000	0x6C65746E 0xFFR-738F 0x00000000 0x000000000 0x0000003F 0x0000003F 0x0000003F 0x0000000000	0.36 EBF BF F
MSR 0x00000199 APIC ID Topolegy Cache descriptor Cache d	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	ია0002793 ია00000000 Processor ID 0, Core ID 5, Thread ID 0 0ა00000016 ია00000016 ია00000000 ია0000000000000000000000000	0x00002800 0x00002500 0x00002500 1 0x756E6547 0x0A100800 0x00168FF 0x00000000 0x0110003F 0x00000000 0x0110003F 0x00000000 0x000000000 0x0000000000		Designation
MSR 0x00000199 APIC ID Topology Cache descriptor CPUID 0x00000000 0x000000000 0x000000000 0x000000	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	ია00002793 ია000000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x00000016 0x00000000 0x16004121 0x1c004121 0x1c004123 0x1c0000000 0x0000000000000000000000000	0x70002800 0x00002500 :: 0x756E6547 0x04100800 0x0076BEFF 0x00000000 0x00000000 0x00000000 0x000000	0x6C65746E 0xFFR-738F 0x00000000 0x000000000 0x0000003F 0x0000003F 0x0000003F 0x0000000000	0.36 EBF BF F
MSR 0x00000199 APIC ID Topology Cache descriptor CPUID 0x00000000 0x000000000 0x000000000 0x000000	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	ია00002793 ია00000000 Processor ID D, Core ID S, Thread ID 0 0x00000016 0x00000016 0x00000000 0x16004121 0x1C004121 0x1C004121 0x1C004123 0x1C004143 0x1C05163 0x00000000 0x000000000 0x000000000000	0x70002800 0x00002500 :: 0x756E6547 0x04100800 0x00076BFF 0x00000000 0x000000000 0x000000000 0x000000	0x6C65746E 0xFFFA738F 0x00000000 0x000000000 0x0000003F 0x0000003F 0x0000003F 0x0000003F 0x000000000 0x000000000 0x0000000000	0.36 EBF BF F
MSR 0x00000199 APIC ID Topology Cache descriptor Cache d	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	Do00002793 Do00000000 Processor ID 0, Core ID 5, Thread ID 0 Do00000016 Do00000016 Do00000000 Do0000000000000000000000000	0x70002800 0x00002500 0x00002500 1 0x756E6547 0x0A100800 0x00168FF 0x0000000 0x0110003F 0x00000000 0x0110003F 0x00000000 0x0100000000 0x000000000 0x00000000		Das ERF FBF David Caston David
MSR 0x00000199 APIC ID Topology Cache descriptor CPUID 0x00000000 0x000000000 0x000000000 0x000000	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	ია00002793 ია00000000 Processor ID D, Core ID S, Thread ID 0 0x00000016 0x00000016 0x00000000 0x16004121 0x1C004121 0x1C004121 0x1C004123 0x1C004143 0x1C05163 0x00000000 0x000000000 0x000000000000	0x70002800 0x00002500 :: 0x756E6547 0x04100800 0x00076BFF 0x00000000 0x000000000 0x000000000 0x000000	0x6C65746E 0xFFFA738F 0x00000000 0x000000000 0x0000003F 0x0000003F 0x0000003F 0x0000003F 0x000000000 0x000000000 0x0000000000	0.36 EBF BF F
MSR 0x00000199 APIC ID Topology Cache descriptor CPUID 0x00000000 0x000000000 0x000000000 0x000000	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	ია00002793 ია00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x00000016 0x00000000 0x1004121 0x1004121 0x1004123 0x1001413 0x10000000 0x00000000 0x00000000 0x00000000	0x70002800 0x00002500 :: 0x756E6547 0x04100800 0x0076B6FF 0x0010003F 0x010003F 0x010003F 0x010003F 0x020003F 0x020003F 0x020003F 0x020000000000000000000000000000000000	0x6C65746E 0xFFFA738F 0x00000000 0x000000000 0x0000003F 0x0000003F 0x0000003F 0x0000003F 0x000000000 0x000000000 0x0000000000	DASEEREFE PRE- DATE PRE- DATE PRE- DATE PRE- DATE PRE- DATE PRE- DAT
MSR 0x00000199 APIC ID Topology Cache descriptor Cache d	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	Do.00002793 Do.00002793 Do.00000000 Processor ID 0, Core ID 5, Thread ID 0 Do.00000016 Do.00000016 Do.00000000 Do.00000000000 Do.0000000000	0x70002800 0x00002500 0x00002500 0x00002500 0x0000000000		Das ERF FIFF David Caston Control Caston Control Caston Control Caston Control Caston
MSR 0x00000199 APIC ID Topology Cache descriptor CPUID 0x00000000 0x000000000 0x000000000 0x000000	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	ია00002793 ია00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x00000016 0x00000000 0x1004121 0x1004121 0x1004123 0x1001413 0x10000000 0x00000000 0x00000000 0x00000000	0x70002800 0x00002500 :: 0x756E6547 0x04100800 0x0076B6FF 0x0010003F 0x010003F 0x010003F 0x010003F 0x020003F 0x020003F 0x020003F 0x020000000000000000000000000000000000	0x6C65746E 0xFFFA738F 0x00000000 0x000000000 0x0000003F 0x0000003F 0x0000003F 0x0000003F 0x000000000 0x000000000 0x0000000000	DASEEREFE PRE- DATE PRE- DATE PRE- DATE PRE- DATE PRE- DATE PRE- DAT
MSR 0x00000199 APIC ID Topology Cache descriptor CPUID 0x00000000 0x000000000 0x000000000 0x000000	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	ია00002793 ია00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x00000061 0x00000000 0x16004121 0x1C004121 0x1C004123 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C004143 0x1C0000000 0x00000000 0x00000000 0x00000000	0x70602300 0x00002500 :: 0x756E6547 0x04100800 0x00076B6FF 0x00000000 0x000000000 0x000000000 0x000000	0x6C65746E 0xFFFA738F 0x00000000 0x000000000 0x0000003F 0x0000003F 0x0000003F 0x0000003F 0x000000000 0x000000000 0x0000000000	Das EREPSF Das David Control of the
MSR 0x00000199 APIC ID Topology Cache descriptor Cache d	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	ია00002793 ია00000000 Processor ID 0, Core ID 5, Thread ID 0 0x00000016 0x000006E0 0x76036301 0x00000000 0x10004121 0x1004121 0x1004123 0x10061433 0x10061433 0x100000000 0x000000000 0x00000000000	0x70602800 0x00002800 0x00002500 :: 0x756E6547 0x04100800 0x00076B6FF 0x00000000 0x000000000 0x000000000 0x000000	0x6C65746E 0xFFFA738F 0x00000000 0x000000000 0x0000003F 0x0000003F 0x0000003F 0x0000003F 0x000000000 0x000000000 0x0000000000	Das EREPSF Das David Control of the
MSR 0x00000199 APIC ID Topology Cache descriptor Cache d	Level 1, I, 32 KB, 2 thread(s) Level 2, U, 256 KB, 2 thread(s)	Do.00002793 Do.00002793 Do.00000000 Processor ID 0, Core ID 5, Thread ID 0 Do.00000016 Do.00000016 Do.00000000 Do.0000000000 Do.0000000000	0x70002800 0x00002500 0x00002500 0x00002500 0x0000000000	0x6C65746E 0xFFFA738F 0x00000000 0x000000000 0x0000003F 0x0000003F 0x0000003F 0x0000003F 0x000000000 0x000000000 0x0000000000	Das EREPSF Das David Control of the

CPU Thread 5

```
MSR 0x00000770
MSR 0x000000774
MSR 0x000000017
MSR 0x000000017
MSR 0x000000017
MSR 0x000000017
MSR 0x000000013
MSR 0x000000018
MSR 0x000000186
MSR 0x00000187
MSR 0x00000194
MSR 0x00000194
MSR 0x00000194
MSR 0x00000194
MSR 0x00000194
MSR 0x000000144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0x00000000
0x000019E
0x08080838
0x00040000
0x0000FFF
0x0000006B
0x00000022A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0x00000001
0x0000FF25
0xF1012500
0x00000000
0xFF7475A
0x3077C2D8
0x62D0B483
0x81E63214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0x81E63214
0x0051003C
0x0041FF88
0x2C2D2DE
0x000F0000
0x00000000
0x882C0008
0x00641000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0x000041000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0x882A0008
                                                                                                                                                              MSR 0x000001B1
MSR 0x000001FC
MSR 0x00000606
MSR 0x00000601
MSR 0x00000610
MSR 0x00000611
MSR 0x00000639
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0x0038005D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0x000A0E03
0x80000000
0x001D87F8
0xB796C3E9
0xA1BFEF8E
                                                                                                                                                              MSR 0x00000639
MSR 0x00000641
MSR 0x00000619
MSR 0x00000614
MSR 0x00000648
MSR 0x00000649
MSR 0x0000064A
MSR 0x00000198
MSR 0x00000199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0x00000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0x026DF6A9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0x00000000
0x00000000
0x00000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0x1082E0D0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0x000002F8
0x00000025
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0x00000000
0x00000000
0x000027CC
0x00000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0x00000000
0x00000000
0x00002800
0x00002500
    BIOS
    UEFI
BIOS Vendor
BIOS MSG
BIOS Date
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          American Megatrends Inc.
63-0100-000001-00101111-090216-Chipset
09/02/2016
    Mainboard Vendor
    Chipset
  Northbridge
Southbridge
Bus Specification
Graphic Interface
PCI-E Link Width
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Intel Coffee Lake rev. 0D
Intel Z370 rev. 00
                                                                                                                                                                                                                                                                                                                                PCI-Express 3.0 (8.0 GT/s)
PCI-Express 3.0
                                                                                                                                                                                                                                                                                                                                x16 (max 16x)
8.0 GT/s (max 8.0 GT/s)
    PCI-E Link Speed
  PCI-E Link Speed
Memory Type
Memory Size
Channels
Memory Frequency
CAS# latency (CL)
RAS# to CAS# delay (tRCD)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DDR4
32 GBytes
Dual
                                                                                                                                                                                                                                                                                                                                  1599.0 MHz (3:48)
                                                                                                                                                                                                                                                                                                                18
RAS# to CAS# delay (tRCD)
RAS# Precharge (tRP)
Cycle Time (tRAS)
Row Refresh Cycle Time (tRFC)
Command Rate (CR)
Uncore Frequency
Host Bridge
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          18
38
                                                                                                                                                                                                                                                                                                                            2T
3997.9 MHz
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0x3EC2
    Memory SPD
    DIMM#
                                                                                                                                                                SMBus address
Memory type
Module format
Module Manufacturer(ID)
                                                                                                                                                                                                                                                                                                                                SDRAM Manufacturer (ID)
                                                                                                                                                                                                                                                                                                                                    Nanya Technology (7F7F7F0B00000000000000
                                                                                                                                                              SDRAM Manufact
Size
Max bandwidth
Max JEDEC
Part number
Nominal Voltage
EPP
XMP
AMP
EXPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8192 MBytes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DDR4-3002 (1501 MHz)
DDR4-2133 (1066 MHz)
CMK16GX4M2B3000C15
1.20 Volts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     no
yes, rev. 2.0
no
no
    JEDEC timings table
                                                                                                                                                                                                                                                                                                                              CL-tRCD-tRP-tRAS-tRC @ frequency
                                                                                                                                                                JEDEC #1
JEDEC #2
JEDEC #3
JEDEC #4
JEDEC #5
JEDEC #6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7.0-8.3-18-25 @ 533 MHz 8.0-99-20-28 @ 600 MHz 9.0-99-22-31 @ 666 MHz 10.0-10-10-25-35 @ 733 MHz 11.0-11-11-27-38 @ 800 MHz 12.0-13-13-30-42 @ 900 MHz 12.0-13-13-30-42 @ 900 MHz 13.0-14-14-32-45 @ 966 MHz 14.0-15-15-36-50 @ 1066 MHz 16.0-15-15-36-50 @ 1066 MHz 18.0-15-15-36-50 @ 1066 MHz 19.0-15-15-36-50 @ 1066 MHz 21.0-15-15-36-50 @ 1066 MHz 21.0-15-15-36-50 @ 1066 MHz 21.0-15-15-36-50 @ 1066 MHz 21.0-15-15-36-50 @ 1066 MHz 22.0-15-15-36-50 @ 1066 MHz 23.0-15-15-36-50 @ 1066 MHz 24.0-15-15-36-50 @ 1066 MHz 24.0-15-36-50 @ 1066 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7.0-8-8-18-25 @ 533 MHz
                                                                                                                                                              JEDEC #6
JEDEC #7
JEDEC #8
JEDEC #9
JEDEC #10
JEDEC #11
JEDEC #12
JEDEC #13
JEDEC #14
JEDEC #15
JEDEC #15
                                                                                                                                                                JEDEC #17
JEDEC #18
    XMP profile
                                                                                                                                                              Specification
VDD Voltage
Min Cycle time
Max CL
Min tRP
Min tRCD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15.0
11.32 ns
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11.32 ns
23.13 ns
                                                                                                                                                                Min tRAS
                                                                                                                                                                Min tRC
Min tRRD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   7.0-8-8-17-25-n.a @ 700 MHz (1.350 Volts)
8.0-10-10-19-28-n.a @ 800 MHz (1.350 Volts)
9.0-11-11-21-32-n.a @ 900 MHz (1.350 Volts)
9.0-11-11-21-32-n.a @ 900 MHz (1.350 Volts)
10.0-13-12-28-35-n.a @ 1010 MHz (1.350 Volts)
11.0-31-3-26-39-n.a @ 1010 MHz (1.350 Volts)
13.0-15-13-46-n.a @ 1010 MHz (1.350 Volts)
13.0-15-13-34-n.a @ 1010 MHz (1.350 Volts)
15.0-17-17-35-52-n.a @ 15010 MHz (1.350 Volts)
15.0-17-17-35-52-n.a @ 15010 MHz (1.350 Volts)
10.17-17-35-52-n.a @ 15010 MHz (1.350 Volts)
13.01-17-17-35-52-n.a @ 15010 MHz (1.350 Volts)
13.01-17-17-35-52-n.a @ 15010 MHz (1.350 Volts)
                                                                                                                                                                                                                                                                                                                              CL-tRCD-tRP-tRAS-tRC-CR @ frequency (voltage)
                                                                                                                                                                XMP #1

XMP #2

XMP #3

XMP #4

XMP #5

XMP #6

XMP #7

XMP #8

XMP #1

XMP #11

XMP #12

XMP #14

XMP #15

XMP #15

XMP #17

XMP #17

XMP #17

XMP #18
    DIMM#
                                                                                                                                                                SMBus address
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0x51
                                                                                                                                                                Memory type
Module format
Module Manufacturer(ID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DDR4
UDIMM
```

	SDRAM Manufacturer (ID)	SK Hynix (AD000000000000000000000000000000000000		
	Size Max bandwidth		DDR4-2998 (1499 MHz)	8192 MBytes
	Max JEDEC Part number		DDR4-2133 (1066 MHz) CMK16GX4M2B3000C15	
	Nominal Voltage		1.20 Volts	
	EPP XMP			no ves rev. 2.0
	AMP			no
JEDEC timings table	EXPO	CL-tRCD-tRP-tRAS-tRC @ frequency		no
	JEDEC #1 JEDEC #2		9.0-9-10-22-31 @ 666 MHz 10.0-10-11-25-35 @ 733 MHz	
	JEDEC #3		11.0-11-12-27-38 @ 800 MHz	
	JEDEC #4 JEDEC #5		12.0-13-13-30-42 @ 900 MHz 13.0-14-14-32-45 @ 966 MHz	
	JEDEC #6 JEDEC #7		14.0-14-15-35-49 @ 1033 MHz	
	JEDEC #8		15.0-15-15-36-50 @ 1066 MHz 16.0-15-15-36-50 @ 1066 MHz	
XMP profile	Specification		XMP-2998 DDR4-2998	
	VDD Voltage		1.350 Volts	
	Min Cycle time Max CL		0.667 ns (1499 MHz)	15.0
	Min tRP Min tRCD		11.33 ns	11.33 ns
	Min tRAS		23.18 ns	
	Min tRC Min tRRD		4.00 ns	34.68 ns
XMP timings table	XMP #1	CL-tRCD-tRP-tRAS-tRC-CR @ frequency (voltage)		9.0-11-11-21-32-n.a @ 899 MHz (1.350 Volts)
	XMP #2			10.0-12-12-24-35-n.a @ 1000 MHz (1.350 Volts)
	XMP #3 XMP #4			11.0-13-13-26-39-n.a @ 1100 MHz (1.350 Volts) 12.0-14-14-28-42-n.a @ 1200 MHz (1.350 Volts)
	XMP #5			13.0-15-15-31-46-n.a @ 1300 MHz (1.350 Volts)
	XMP #6 XMP #7			14.0-16-16-33-49-n.a @ 1400 MHz (1.350 Volts) 15.0-17-17-35-52-n.a @ 1499 MHz (1.350 Volts)
	XMP #8 XMP #9			16.0-17-17-35-52-n.a @ 1499 MHz (1.350 Volts) 17.0-17-17-35-52-n.a @ 1499 MHz (1.350 Volts)
	XMP #10			18.0-17-17-35-52-n.a @ 1499 MHz (1.350 Volts)
	XMP #11 XMP #12			19.0-17-17-35-52-n.a @ 1499 MHz (1.350 Volts) 20.0-17-17-35-52-n.a @ 1499 MHz (1.350 Volts)
DIMM#				3
DIIVIIVI #	SMBus address		0x52	3
	Memory type Module format		DDR4 UDIMM	
	Module Manufacturer(ID)	Corsair (7F7F9E00000000000000000000000)		
	SDRAM Manufacturer (ID) Size	Nanya Technology (7F7F7F0B000000000000000000		8192 MBytes
	Max bandwidth Max JEDEC		DDR4-3002 (1501 MHz) DDR4-2133 (1066 MHz)	
	Part number		CMK16GX4M2B3000C15	
	Nominal Voltage EPP		1.20 Volts	no
	XMP			yes, rev. 2.0
	AMP EXPO			no no
JEDEC timings table	JEDEC #1	CL-tRCD-tRP-tRAS-tRC @ frequency	7.0-8-8-18-25 @ 533 MHz	
	JEDEC #2 JEDEC #3		8.0-9-9-20-28 @ 600 MHz 9.0-9-9-22-31 @ 666 MHz	
	JEDEC #4		9.0-9-9-22-31 @ 666 MHz 10.0-10-10-25-35 @ 733 MHz	
	JEDEC #5 JEDEC #6		11.0-11-11-27-38 @ 800 MHz 12.0-13-13-30-42 @ 900 MHz	
	JEDEC #7		13.0-14-14-32-45 @ 966 MHz	
	JEDEC #8 JEDEC #9		14.0-14-14-35-49 @ 1033 MHz 15.0-15-15-36-50 @ 1066 MHz	
	JEDEC #10 JEDEC #11		16.0-15-15-36-50 @ 1066 MHz 17.0-15-15-36-50 @ 1066 MHz	
	JEDEC #12		18.0-15-15-36-50 @ 1066 MHz	
	JEDEC #13 JEDEC #14		19.0-15-15-36-50 @ 1066 MHz 20.0-15-15-36-50 @ 1066 MHz	
	JEDEC #15		21.0-15-15-36-50 @ 1066 MHz	
	JEDEC #16 JEDEC #17		22.0-15-15-36-50 @ 1066 MHz 23.0-15-15-36-50 @ 1066 MHz	
XMP profile	JEDEC #18		24.0-15-15-36-50 @ 1066 MHz XMP-3002	
Ann prome	Specification		DDR4-3002	
	VDD Voltage Min Cycle time		1.350 Volts 0.666 ns (1501 MHz)	
	Max CL Min tRP			15.0 11.32 ns
	Min tRCD		11.32 ns	
	Min tRAS Min tRC		23.13 ns	34.63 ns
XMP timings table	Min tRRD	CL-tRCD-tRP-tRAS-tRC-CR @ frequency (voltage)	4.00 ns	
AWIF UITINGS CADIC	XMP #1	ce-treb-tir-tivo-tre-en @ frequency (voltage)		7.0-8-8-17-25-n.a @ 700 MHz (1.350 Volts)
	XMP #2 XMP #3			8.0-10-10-19-28-n.a @ 800 MHz (1.350 Volts) 9.0-11-11-21-32-n.a @ 900 MHz (1.350 Volts)
	XMP #4 XMP #5			10.0-12-12-24-35-n.a @ 1001 MHz (1.350 Volts) 11.0-13-13-26-39-n.a @ 1101 MHz (1.350 Volts)
	XMP #6			12.0-14-14-28-42-n.a @ 1201 MHz (1.350 Volts)
	XMP #7 XMP #8			13.0-15-15-31-46-n.a @ 1301 MHz (1.350 Volts) 14.0-16-16-33-49-n.a @ 1401 MHz (1.350 Volts)
	XMP #9 XMP #10			15.0-17-17-35-52-n.a @ 1501 MHz (1.350 Volts) 16.0-17-17-35-52-n.a @ 1501 MHz (1.350 Volts)
	XMP #11			17.0-17-17-35-52-n.a @ 1501 MHz (1.350 Volts)
	XMP #12 XMP #13			18.0-17-17-35-52-n.a @ 1501 MHz (1.350 Volts) 19.0-17-17-35-52-n.a @ 1501 MHz (1.350 Volts)
	XMP #14 XMP #15			20.0-17-17-35-52-n.a @ 1501 MHz (1.350 Volts) 21.0-17-17-35-52-n.a @ 1501 MHz (1.350 Volts)
	XMP #16			22.0-17-17-35-52-n.a @ 1501 MHz (1.350 Volts)
	XMP #17 XMP #18			23.0-17-17-35-52-n.a @ 1501 MHz (1.350 Volts) 24.0-17-17-35-52-n.a @ 1501 MHz (1.350 Volts)
DIMM#				4
SHAIIAI A	SMBus address		0x53	4
	Memory type Module format		DDR4 UDIMM	
	Module Manufacturer(ID) SDRAM Manufacturer (ID)	Corsair (7F7F9E0000000000000000000000) SK Hynix (AD000000000000000000000000000000000000		
	Size	Sit i i yi iix (mbooodoodoodoodoodoodoodoodoo)		8192 MBytes
	Max bandwidth Max JEDEC		DDR4-2998 (1499 MHz) DDR4-2133 (1066 MHz)	
	Part number		CMK16GX4M2B3000C15	
	Nominal Voltage EPP		1.20 Volts	no
	XMP AMP			yes, rev. 2.0 no
armen a series	EXPO	01 1000 100 1015 177 7		no
JEDEC timings table	JEDEC #1	CL-tRCD-tRP-tRAS-tRC @ frequency	9.0-9-10-22-31 @ 666 MHz	
	JEDEC #2 JEDEC #3		10.0-10-11-25-35 @ 733 MHz 11.0-11-12-27-38 @ 800 MHz	
	JEDEC #4		12.0-13-13-30-42 @ 900 MHz	
	JEDEC #5 JEDEC #6		13.0-14-14-32-45 @ 966 MHz 14.0-14-15-35-49 @ 1033 MHz	
	JEDEC #7 JEDEC #8		15.0-15-15-36-50 @ 1066 MHz 16.0-15-15-36-50 @ 1066 MHz	
XMP profile	JEDEC NO		XMP-2998	
			DDR4-2998	
	Specification VDD Voltage		1.350 Volts	
	VDD Voltage Min Cycle time			15.0
	VDD Voltage Min Cycle time Max CL Min tRP		1.350 Volts 0.667 ns (1499 MHz)	15.0 11.33 ns
	VDD Voltage Min Cycle time Max CL		1.350 Volts	

	Min tRAS Min tRC		23.18 ns	34.68 ns
XMP timings table	Min tRRD	CL-tRCD-tRP-tRAS-tRC-CR @ frequency (voltage)	4.00 ns	
	XMP #1 XMP #2			9.0-11-11-21-32-n.a @ 899 MHz (1.350 Volts) 10.0-12-12-24-35-n.a @ 1000 MHz (1.350 Volts)
	XMP #3 XMP #4 XMP #5			11.0-13-13-26-39-n.a @ 1100 MHz (1.350 Volts) 12.0-14-14-28-42-n.a @ 1200 MHz (1.350 Volts) 13.0-15-15-31-46-n.a @ 1300 MHz (1.350 Volts)
	XMP #6 XMP #7			14.0-16-16-33-49-n.a @ 1400 MHz (1.350 Volts)
	XMP #8 XMP #9			15.0-17-17-35-52-n.a @ 1499 MHz (1.350 Volts) 16.0-17-17-35-52-n.a @ 1499 MHz (1.350 Volts) 17.0-17-17-35-52-n.a @ 1499 MHz (1.350 Volts)
	XMP #10 XMP #11			18.0-17-17-35-52-1.a @ 1499 MHz (1.350 Volts) 18.0-17-17-35-52-n.a @ 1499 MHz (1.350 Volts) 19.0-17-17-35-52-n.a @ 1499 MHz (1.350 Volts)
	XMP #12			20.0-17-17-35-52-n.a @ 1499 MHz (1.350 Volts)
DIMM # SPD registers				1
		00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0F 0F 0 23 10 0C 02 85 21 00 08 00 00 00 03 01 03 00 00		
		10 00 00 08 0C FF FF 03 00 6C 6C 6C 11 08 74 F0 0A 20 20 08 00 05 00 A8 1E 2B 2B 00 00 00 00 00 00 00		
		30 00 00 00 00 00 00 00 00 00 00 00 00 16 36 16 36 40 16 36 16 36 00 00 28 0C 28 0C 28 0C 28 0C 00 00		
		50 00 00 00 00 00 00 00 00 00 00 00 00 0		
		70 00 00 00 00 00 ED B5 CE 00 00 00 00 00 C2 B6 0D 80 11 11 00 00 00 00 00 00 00 00 00 00 00		
	A0 B0	90 00 00 00 00 00 00 00 00 00 00 00 00 0		
	CO DO	00 00 00 00 00 00 00 00 00 00 00 00 00		
	EO FO	00 00 00 00 00 00 00 00 00 00 00 00 00		
		100 00 00 00 00 00 00 00 00 00 00 00 00		
		120 00 00 00 00 00 00 00 00 00 00 00 00 0		
		140 02 9E 00 00 00 00 00 00 043 4D 4B 31 36 47 58 150 34 4D 32 42 33 30 30 30 43 31 35 20 20 00 83 0B		
		160 00 00 00 00 00 00 00 00 00 00 00 00 0		
		180 OC 4A 01 20 00 00 00 00 00 A3 00 00 06 FF FF 03 190 00 50 5B 5B 10 BA 16 F0 0A 20 08 00 05 00 B0 20		
	1A0 1B0	28 00 00 00 00 00 00 00 00 D1 FC 8A CB CB F6 AC 00 00 00 00 00 00 00 00 00 00 00 00 00		
	1C0 1D0	00 00 00 00 00 00 00 00 00 00 00 00 00		
	1F0	00 00 00 00 00 00 00 00 00 00 00 00 00		
DIMM # SPD registers				2
		00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0F 0F 0 23 10 0C 02 85 21 00 08 00 00 00 03 01 03 00 00		
		10 00 00 08 0C FC 03 00 00 6C 6C 71 11 08 74 F0 0A 20 20 08 00 05 00 A8 1E 2B 2B 00 00 00 00 00 00 00		
		30 00 00 00 00 00 00 00 00 00 00 00 00 16 36 16 36 40 16 36 16 36 00 00 28 0C 28 0C 28 0C 28 0C 00 00		
		50 00 00 00 00 00 00 00 00 00 00 00 00 0		
		80 11 11 00 00 00 00 00 00 00 00 00 00 00		
	A0 B0	00 00 00 00 00 00 00 00 00 00 00 00 00		
	CO DO	00 00 00 00 00 00 00 00 00 00 00 00 00		
	E0 F0	00 00 00 00 00 00 00 00 00 00 00 00 00		
		100 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 0		
		150 34 4D 32 42 33 30 30 30 43 31 35 20 20 00 80 AD 160 00 00 00 00 00 00 00 00 00 00 00 00 0		
		170 00 00 00 00 00 00 00 00 00 00 00 00 0		
	1A0	190 00 50 58 58 10 BA 16 F0 0A 20 08 00 05 00 B0 20 28 00 00 00 00 00 00 00 00 D3 00 BA D3 D3 00 AD		
	1B0 1C0 1D0	00 00 00 00 00 00 00 00 00 00 00 00 00		
	1F0	1,00E+00 00 00 00 00 00 00 00 00 00 00 00 00		
DIMM#				3
SPD registers		00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F		
		0 23 10 0C 02 85 21 00 08 00 00 00 03 01 03 00 00 10 00 00 08 0C FF FF 03 00 6C 6C 6C 11 08 74 F0 0A		
		20 20 08 00 05 00 A8 1E 2B 2B 00 00 00 00 00 00 00 30 00 00 00 00 00 00 00 00 00 00 00 16 36 16 36 40 16 36 16 36 00 00 2B 0C 2B 0C 2B 0C 2B 0C 00 00		
		50 00 00 00 00 00 00 00 00 00 00 00 00 0		
		70 00 00 00 00 00 ED B5 CE 00 00 00 00 00 C2 B6 0D 80 11 11 00 00 00 00 00 00 00 00 00 00 00		
	Α0	90 00 00 00 00 00 00 00 00 00 00 00 00 0		
	B0 C0	00 00 00 00 00 00 00 00 00 00 00 00 00		
	D0 E0 F0	00 00 00 00 00 00 00 00 00 00 00 00 00		
	ru	100 00 00 00 00 00 00 00 00 00 00 00 00		
		120 00 00 00 00 00 00 00 00 00 00 00 00 0		
		140 02 9E 00 00 00 00 00 00 043 4D 4B 31 36 47 58 150 34 4D 32 42 33 30 30 30 43 31 35 20 20 00 83 0B		
		160 00 00 00 00 00 00 00 00 00 00 00 00 0		
		180 OC 4A 01 20 00 00 00 00 0A 3 00 00 06 FF FF 03 190 OO 50 5B 5B 10 BA 16 F0 0A 20 08 00 05 00 B0 20		
	1A0 1B0 1C0	28 00 00 00 00 00 00 00 00 D1 FC 8A CB CB F6 AC 00 00 00 00 00 00 00 00 00 00 00 00 00		
	100	00 00 00 00 00 00 00 00 00 00 00 00 00		
	1F0	00 00 00 00 00 00 00 00 00 00 00 00 00		
DIMM # SPD registers				4
		00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 0 23 10 0C 02 85 21 00 08 00 00 00 3 01 03 00 00		
		10 00 00 08 0C FC 03 00 00 6C 6C 71 11 08 74 F0 0A 20 20 08 00 05 00 A8 1E 2B 2B 00 00 00 00 00 00 00 20 00 00 00 00 00 00 00 00 00 00 00 15 26 16 26		
		30 00 00 00 00 00 00 00 00 00 00 00 00 0		
		60 00 00 00 00 00 00 00 00 00 00 00 00 0		
		80 11 11 00 00 00 00 00 00 00 00 00 00 00		

Monitorine .	AO 80 CO DO FO	00 00 00 00 00 00 00 00 00 00 00 00 00		
Mainboard Model		Z370 KRAIT GAMING (MS-7B46) (0x00000683 - 0xC.	A9435F4)	
LPCIO				
LPCIO Vendor LPCIO Model LPCIO Vendor ID LPCIO Chip ID LPCIO Revision ID Config Mode I/O address Config Mode LDN Config Mode registers		0x52 0x4E 00 01 02 03 04 05 06 07 08 09 0A 08 0C 00 0E 0F 0 FFF 0FF FFF FFF FFFFFFFFFFFF	Nuvoton NCT6795 0x5CA3 0x03	
Register space Hardware Monitors		20 DS 32 FF 00 00 00 40 30 OF F 58 00 00 00 01 18 30 OF FFF FFF FFF FFF FFF FFF FFF FFF FFF	LPC, base address = 0x0A20	
Hardware monitor	Voltage 2 Voltage 3 Voltage 7 Voltage 7 Voltage 8 Voltage 9 Voltage 10 Voltage 11 Voltage 12 Voltage 12 Voltage 13 Temperature 1 Temperature 1 Temperature 5 Temperature 5 Temperature 6 Fan 1 Fan 2 Fan 3 Fan 4	Nuvoton NCT6795	3.34 Volts [0x01] (AVCC) 3.36 Volts [0x02] (3VCC) 3.36 Volts [0x02] (3VCC) 1.27 Volts [0x07] (CPU VCORE) 1.27 Volts [0x07] (CPU VCORE) 1.14 Volts [0x36] (DOMA) 11.90 Volts [0x7C] (+12V) 5.08 Volts [0x7C] (+12V) 5.08 Volts [0x7C] (+12V) 1.00 Volts [0x7C] (PCH VOltage) 1.00 Volts [0x7C] (PCH VOltage) 1.01 Volts [0x7C] (PCH VOltage) 3.1 deg(617 Voltage) [0x31] (VFVIN) 4.0 deg(1.106 degf) [0x31] (TMPNIS) 4.0 deg(1.106 degf) [0x31] (TMPNIS) 3.1 deg(1.87 degf) [0x31] (TMPNIS) 3.1 deg(1.87 degf) [0x1F] (System)	2191 RPM (0x88F) (CPU) 1247 RPM (0x40F) (System #1) 1299 RPM (0x513) (System #2) 1272 RPM (0x68) (System #3)
Hardware registers Register space	Fan 5		LPC, base address = 0x0A20	1268 RPM [0x4F4] (System #4)
bank 0	A0 80 C0 D0 E0 F0	00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 0 03 4A 03 102 0F FFFFFF FFFFFFFFFFFFFFFFFFFFFFFFF		
	A0 80 C0 D0 E0 F0	10 FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF		
Hardware monitor	Clock Speed 0 Clock Speed 1 Clock Speed 2	Intel I/O	0.00 MHz [0x0] (Graphics) n.a. (Memory) n.a. (Processor)	
Hardware monitor	Power 01	NVIDIA NVML	24.73 W (GPU)	
Hardware monitor	Power 01 Clock Speed 0 Clock Speed 1 Clock Speed 2	NVIDIA NVAPI	24.73 W (GPU) 1320.00 MHz [0x528] (Graphics) 6120.98 MHz [0x17E8] (Memory) n.a. (Processor)	
PCI Devices				
Register space			PCI Express, base address = 0x0E0000000	
Description Location Common header			Host Bridge bus 0 (0x00), device 0 (0x00), function 0 (0x00)	

```
0x8086 (Intel)
0x3EC2
0x0D
                                                                                                                                                                                           0x00
0x06
0x00
                                                                                                                                                                                                                                                                            0x00
0x00
PCI header
                                                                                                                                                                                           0x1462 (MSI)
0x7B46
0x00
0x00
PCI capability
                                                     Caps class
Caps offset
                                                                                                                                                                                           Vendor Dependant
0xE0
                                                                                                     PCI registers
                                                     A0
B0
C0
D0
E0
F0
                                                                                                                                                                                            PCI to PCI Bridge
bus 0 (0x00), device 1 (0x01), function 0 (0x00)
                                                     Vendor ID
Model ID
Revision ID
PI
SubClass
BaseClass
Cache Line
Latency
Header
                                                                                                                                                                                           0x8086 (Intel)
                                                                                                                                                                                            0x1901
0x0D
                                                                                                                                                                                                                                                                            0x00
                                                                                                                                                                                           0x04
0x06
0x10
                                                                                                                                                                                                                                                                            0x00
0x81
PCI header
                                                                                                                                                                                           0x00
0x01
0x0B
0x01
                                                     Primary bus
                                                     Secondary bus
                                                     Int. Line
Int. Pin
PCI capability
                                                     Caps class
Caps offset
SubVendor ID
SubSystem ID
                                                                                                                                                                                           Subsystem Vendo
0x88
0x1462 (MSI)
0x7B46
PCI capability
                                                     Caps class
Caps offset
Caps version
                                                                                                                                                                                           Power Management
0x80
1.2
PCI capability
                                                                                                                                                                                           Message Signalled Interrupts
0x90
                                                     Caps class
Caps offset
PCI capability
                                                     Caps class
Caps offset
Device type
Port
Caps version
Physical slot
Presence dete
Link width
                                                                                                                                                                                            PCI Express
                                                                                                                                                                                            0xA0
Root Port of PCI-E Root Complex
                                                                                                                                                                                           2.0
#0
yes
16x (max 16x)
8.0 GT/s (max 8.0 GT/s)
PCI extended capability
                                                     Caps class
Caps offset
                                                                                                                                                                                           Virtual Channel
0x100
PCI extended capability
                                                     Caps class
Caps offset
Link Entries #
Port Number
                                                                                                                                                                                             Root Complex Link Declaration
0x140
PCI extended capability
                                                     Caps class
Caps offset
                                                                                                                                                                                            Secondary PCI Express
0xD94
                                                                                          PCI registers
                                                     A0
B0
C0
D0
E0
F0
                                                     1A0
1B0
1C0
1D0
                                                     1F0
                                                                                                                                                                                            Display Controller
bus 0 (0x00), device 2 (0x02), function 0 (0x00)
                                                     Vendor ID
Model ID
Revision ID
PI
SubClass
BaseClass
Cache Line
Latency
Header
                                                                                                                                                                                           0x8086 (Intel)
0x3E98
                                                                                                                                                                                            0x02
                                                                                                                                                                                                                                                                            0x00
                                                                                                                                                                                           0x80
0x03
0x10
PCI header
                                                     Address 0 (memory)
Address 2 (memory)
Address 4 (port)
Subvendor ID
                                                                                                            0x00000000DD000004
                                                                                                            0x00000000B000000C
0x0000FEC0
```

0x1462 (MSI)

```
0x7B46
0x00
0x01
PCI capability
                                                    Caps class
Caps offset
Device type
Port
Caps version
                                                                                                                                                                                        PCI Express
0x70
Root Complex Integrated Endpoint Device
                                                    Caps class
Caps offset
                                                                                                                                                                                        Message Signalled Interrupts
0xAC
PCI capability
                                                    Caps class
Caps offset
Caps version
                                                                                                                                                                                        Power Management
0xD0
1.1
PCI extended capability
PCI extended capability
                                                    Caps class
Caps offset
                                                                                                                                                                                        0xF
0x200
PCI extended capability
                                                    Caps class
Caps offset
                                                                                                                                                                                        0x13
0x300
                                                                                        PCI registers
                                                    A0
B0
C0
D0
E0
F0
                                                    1A0
1B0
1C0
1D0
                                                                                                                                                                                        System Device bus 0 (0x00), device 8 (0x08), function 0 (0x00)
                                                    Vendor ID
Model ID
Revision ID
PI
SubClass
BaseClass
Cache Line
Latency
Header
                                                                                                                                                                                        0x8086 (Intel)
                                                                                                                                                                                        0x1911
0x00
                                                                                                                                                                                        0x80
0x08
0x10
                                                                                                                                                                                                                                                                      0x00
0x00
PCI header
                                                    Address 0 (memory)
Subvendor ID
Subsystem ID
Int. Line
Int. Pin
                                                                                                          0x00000000DF44F004
                                                                                                                                                                                        0x1462 (MSI)
0x7846
0x08
0x01
PCI capability
                                                    Caps class
Caps offset
                                                                                                                                                                                        Message Signalled Interrupts
0x90
PCI capability
                                                    Caps class
Caps offset
Caps version
                                                                                                                                                                                        Power Management
0xDC
1.1
                                                    Caps class
Caps offset
PCI registers
                                                                                                   00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
                                                    A0
B0
C0
D0
E0
F0
Description
Location
Common header
                                                                                                                                                                                        USB Controller (xHCI)
bus 0 (0x00), device 20 (0x14), function 0 (0x00)
                                                    Vendor ID
Model ID
Revision ID
PI
SubClass
BaseClass
Cache Line
Latency
Header
                                                                                                                                                                                        0xA2AF
0x00
                                                                                                                                                                                                                                                                      0x30
                                                                                                                                                                                        0x03
0x0C
0x00
                                                    Address 0 (me
Subvendor ID
Subsystem ID
Int. Line
Int. Pin
                                                                                                                                                                                        0x1462 (MSI)
0x7B46
0x00
0x01
PCI capability
                                                    Caps class
Caps offset
Caps version
PCI capability
                                                                                                                                                                                        Message Signalled Interrupts
0x80
                                                    Caps class
Caps offset
PCI registers
```

00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 0 86 80 AF A2 06 04 90 02 00 30 03 0C 00 00 80 00

```
A0
B0
C0
D0
E0
F0
Description
                                                                                                                                                                                                              Data Aquisition and Signal Processing Device
bus 0 (0x00), device 20 (0x14), function 2 (0x02)
Location
Common header
                                                          Vendor ID
Model ID
Revision ID
PI
SubClass
BaseClass
Cache Line
Latency
Header
                                                                                                                                                                                                                                                                                                     0x00
                                                                                                                                                                                                             0x80
0x11
0x00
                                                                                                                                                                                                                                                                                                     0x00
                                                          Address 0 (memory)
Subvendor ID
Subsystem ID
Int. Line
Int. Pin
                                                                                                                                                                                                             0x1462 (MSI)
0x7B46
0x0B
0x03
PCI capability
                                                          Caps class
Caps offset
Caps version
                                                          Caps class
Caps offset
                                                                                                              PCI registers
                                                          A0
B0
C0
D0
E0
F0
                                                                                                                      00 00 00 00 00 00 00 00 B3 0F 00 08 00 00 00 00
Description
Location
Common he
                                                                                                                                                                                                              Communication Device
bus 0 (0x00), device 22 (0x16), function 0 (0x00)
                                                          Vendor ID
Model ID
Revision ID
PI
SubClass
BaseClass
Cache Line
Latency
Header
                                                                                                                                                                                                             0x8086 (Intel)
0xA2BA
0x00
                                                                                                                                                                                                                                                                                                     0x00
                                                                                                                                                                                                             0x80
0x07
0x00
PCI hoade
                                                          Address 0 (memory)
Subvendor ID
Subsystem ID
Int. Line
Int. Pin
                                                                                                                     0x00000000FE7FF004
                                                                                                                                                                                                             0x1462 (MSI)
0x7B46
0x00
0x01
PCI capability
PCI capability
                                                          Caps class
Caps offset
                                                                                                                                                                                                             Message Signalled Interrupts
0x8C
                                                                                                              PCI registers
                                                          A0
B0
C0
D0
E0
F0
                                                                                                                                                                                                              Serial ATA Controller - AHCI
bus 0 (0x00), device 23 (0x17), function 0 (0x00)
                                                          Vendor ID
Model ID
Revision ID
PI
SubClass
BaseClass
Cache Line
Latency
Header
                                                                                                                                                                                                             0x8086 (Intel)
                                                                                                                                                                                                              0xA282
0x00
                                                                                                                                                                                                                                                                                                     0x01
                                                                                                                                                                                                             0x06
0x01
0x00
PCI header
                                                         Address 0 (memory)
Address 1 (memory)
Address 2 (port)
Address 3 (port)
Address 4 (port)
Address 5 (memory)
Subvendor ID
Subsystem ID
Int. Line
Int. Pin
                                                                                                                      0xDF448000
                                                                                                                     0xDF44C000
0x0000F090
0x0000F080
0x0000F060
0xDF44B000
                                                                                                                                                                                                             0x1462 (MSI)
0x7B46
0x00
0x01
PCI capability
                                                                                                                                                                                                              Message Signalled Interrupts
0x80
                                                          Caps class
Caps offset
                                                          Caps class
Caps offset
Caps version
                                                                                                                                                                                                             Power Ma
0x70
1.2
PCI capability
                                                          Caps class
Caps offset
                                                                                                                                                                                                             Serial ATA Configuration 
0xA8
```

PCI registers

```
A0
B0
C0
D0
E0
F0
                                                                                                                                                                                                       PCI to PCI Bridge
bus 0 (0x00), device 28 (0x1C), function 0 (0x00)
                                                       Vendor ID
Model ID
Revision ID
PI
SubClass
BaseClass
Cache Line
Latency
Header
                                                                                                                                                                                                       0x8086 (Intel)
0xA290
                                                                                                                                                                                                        0xF0
                                                                                                                                                                                                                                                                                             0x00
                                                                                                                                                                                                       0x04
0x06
0x10
PCI heade
                                                                                                                                                                                                      0x00
0x02
0x0B
0x01
                                                        Primary bus
Secondary bus
Int. Line
Int. Pin
PCI capability
                                                       Caps class
Caps offset
Device type
Port
Caps version
Physical slot
Link width
Link speed
                                                                                                                                                                                                       PCI Express
0x40
Root Port of PCI-E Root Complex
                                                                                                                                                                                                        2.0
                                                                                                                                                                                                       Integrated device

0x (max 1x)

2.5 GT/s (max 8.0 GT/s)
PCI capability
                                                                                                                                                                                                       Message Signalled Interrupts
0x80
PCI capability
                                                        Caps class
Caps offset
SubVendor ID
SubSystem ID
                                                                                                                                                                                                        Subsystem Vendor
                                                                                                                                                                                                        0x90
                                                                                                                                                                                                        0x1462 (MSI)
                                                                                                                                                                                                       0x7B46
PCI capability
                                                        Caps class
Caps offset
Caps version
                                                                                                                                                                                                       Power Management
0xA0
1.2
                                                                                               PCI registers
                                                        A0
B0
C0
D0
E0
F0
                                                        1A0
1B0
1C0
1D0
                                                        1F0
                                                                                                                                                                                                        PCI to PCI Bridge
bus 0 (0x00), device 28 (0x1C), function 4 (0x04)
Location
Common header
                                                        Vendor ID
Model ID
Revision ID
PI
SubClass
BaseClass
Cache Line
Latency
Header
                                                                                                                                                                                                       0x04
0x06
0x10
                                                                                                                                                                                                                                                                                             0x00
0x81
PCI heade
                                                                                                                                                                                                       0x00
0x03
0x0B
0x01
PCI capability
                                                       Caps class
Caps offset
Device type
Port
Caps version
Physical slot
Presence det
Link width
Link speed
                                                                                                                                                                                                        PCI Express
                                                                                                                                                                                                        0x40
Root Port of PCI-E Root Complex
                                                                                                                                                                                                      2.0
#1
yes
2x (max 2x)
8.0 GT/s (max 8.0 GT/s)
PCI capability
                                                                                                                                                                                                       Message Signalled Interrupts
0x80
                                                        Caps class
Caps offset
PCI capability
                                                        Caps class
Caps offset
SubVendor ID
SubSystem ID
                                                                                                                                                                                                       Subsystem Vendor
0x90
0x1462 (MSI)
0x7846
PCI capability
                                                        Caps class
Caps offset
Caps version
                                                                                                                                                                                                       Power Management
0xA0
1.2
                                                                                                                                                                                                        Advanced Error Reporting
0x100
                                                        Caps class
Caps offset
PCI extended capability
                                                        Caps class
Caps offset
                                                                                                                                                                                                       0x140
```

Secondary PCI Express

PCI extended capability

Caps class

```
PCI registers
                                                A0
B0
C0
D0
E0
F0
                                                1A0
1B0
1C0
1D0
                                                1F0
                                                                                                                                                                          PCI to PCI Bridge
bus 0 (0x00), device 28 (0x1C), function 6 (0x06)
                                               Vendor ID
Model ID
Revision ID
PI
SubClass
BaseClass
Cache Line
Latency
Header
                                                                                                                                                                          0xA296
                                                                                                                                                                          0xF0
                                                                                                                                                                                                                                                   0x00
                                                                                                                                                                                                                                                   0x00
0x81
PCI heade
                                                                                                                                                                          0x00
0x04
0x0B
0x03
                                                Primary bus
                                                Secondary bus
                                                Int. Line
Int. Pin
PCI capability
                                               Caps class
Caps offset
Device type
Port
Caps version
Physical slot
Presence detect
Link width
Link speed
                                                                                                                                                                          PCI Express
0x40
Root Port of PCI-E Root Complex
                                                                                                                                                                          2.0
#1
                                                                                                                                                                          yes
1x (max 1x)
2.5 GT/s (max 8.0 GT/s)
                                                                                                                                                                          Message Signalled Interrupts
0x80
                                                Caps class
Caps offset
PCI capability
                                                Caps class
Caps offset
SubVendor ID
SubSystem ID
                                                                                                                                                                          Subsystem Vendor
                                                                                                                                                                          0x90
0x1462 (MSI)
0x7B46
                                                Caps class
Caps offset
                                                                                                                                                                          0xA0
                                                                                                                                                                          1.2
PCI extended capability
                                                Caps class
Caps offset
                                                                                                                                                                          Advanced Error Reporting
0x100
PCI extended capability
                                                Caps class
Caps offset
                                                                                                                                                                          0xD
0x140
PCI extended capability
                                                Caps class
Caps offset
                                                                                                                                                                           Secondary PCI Express
                                                                                                                                                                          0x220
PCI registers
                                                                                         00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
                                                A0
B0
C0
D0
E0
F0
                                                1A0
1B0
1C0
1D0
                                                                                   1F0
Description
Location
Common header
                                                                                                                                                                          PCI to PCI Bridge
bus 0 (0x00), device 29 (0x1D), function 0 (0x00)
                                              Vendor ID
Model ID
Revision ID
PI
SubClass
BaseClass
Cache Line
Latency
Header
                                                                                                                                                                                                                                                   0x00
                                                                                                                                                                          0x04
0x06
0x10
PCI heade
                                                Primary bus
Secondary bus
Int. Line
Int. Pin
                                                                                                                                                                          0x00
0x05
0x0B
0x01
PCI capability
```

PCI Express

0x220

Caps offset

Caps class

```
0x40
Root Port of PCI-E Root Complex
                                                   Caps offset
Device type
Port
Caps version
Physical slot
Presence det
Link width
Link speed
                                                                                                                                                                                     2.0
#1
yes
4x (max 4x)
8.0 GT/s (max 8.0 GT/s)
PCI capability
                                                                                                                                                                                      Message Signalled Interrupts
0x80
                                                   Caps class
Caps offset
PCI capability
                                                   Caps class
Caps offset
SubVendor ID
SubSystem ID
                                                                                                                                                                                     Subsystem Vendor
0x90
0x1462 (MSI)
0x7846
PCI capability
                                                   Caps class
Caps offset
Caps version
                                                                                                                                                                                     Power Management
0xA0
1.2
                                                                                                                                                                                      Advanced Error Reporting
0x100
                                                   Caps class
Caps offset
PCI extended capability
                                                   Caps class
Caps offset
                                                                                                                                                                                      0x140
PCI extended capability
                                                                                                                                                                                      Secondary PCI Express
0x220
                                                   Caps class
Caps offset
                                                                                       A0
B0
C0
D0
E0
F0
                                                   1A0
1B0
1C0
1D0
Description
Location
Common header
                                                                                                                                                                                      PCI to ISA Bridge
bus 0 (0x00), device 31 (0x1F), function 0 (0x00)
                                                  Vendor ID
Model ID
Revision ID
PI
SubClass
BaseClass
Cache Line
Latency
Header
                                                                                                                                                                                     0x8086 (Intel)
                                                                                                                                                                                      0xA2C9
0x00
                                                                                                                                                                                     0x01
0x06
0x00
                                                                                                                                                                                                                                                                   0x00
0x80
PCI heade
                                                                                                                                                                                    0x1462 (MSI)
0x7846
0x00
0x00
PCI registers
                                                                                                 00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
                                                   A0
B0
C0
D0
E0
F0
Description
Location
Common header
                                                                                                                                                                                      Memory Controller
bus 0 (0x00), device 31 (0x1F), function 2 (0x02)
                                                  Vendor ID
Model ID
Revision ID
PI
SubClass
BaseClass
Cache Line
Latency
Header
                                                                                                                                                                                    0x80
0x05
0x00
PCI heade
                                                  Address 0 (memory)
Subvendor ID
Subsystem ID
Int. Line
Int. Pin
                                                                                                        0xDF444000
                                                                                                                                                                                    0x1462 (MSI)
0x7B46
0x00
0x00
                                                                                                 PCI registers
                                                   A0
B0
C0
D0
E0
F0
```

Caps offset

```
Location
Common header
                                                                                                                                                                                                                                                                                                                                                                                                                      bus 0 (0x00), device 31 (0x1F), function 3 (0x03)
                                                                                                                 Vendor ID
Model ID
Revision ID
PI
SubClass
BaseClass
Cache Line
Latency
Header
                                                                                                                                                                                                                                                                                                                                                                                                                      0x8086 (Intel)
0xA2F0
0x00
                                                                                                                                                                                                                                                                                                                                                                                                                     0x03
0x04
0x10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0x20
0x00
                                                                                                                 Address 0 (memory)
Address 4 (memory)
Subvendor ID
Subsystem ID
Int. Line
Int. Pin
                                                                                                                                                                                                                                                                                                                                                                                                                     0x1462 (MSI)
0xCB46
0x10
0x01
PCI capability
                                                                                                                   Caps class
Caps offset
Caps version
PCI capability
                                                                                                                                                                                                                                                                                                                                                                                                                        Message Signalled Interrupts
0x60
                                                                                                                   Caps class
Caps offset
PCI registers
                                                                                                                                                                                                                            00 11.0 23.3 44 55.6 67.78 8.99 1A.08 1C.07 0.0 0.0 1A.08 1C.07 0.
                                                                                                                                                                                                                                         00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
                                                                                                                   A0
B0
C0
D0
E0
F0
                                                                                                                                                                                                                                         SMBus Controller
bus 0 (0x00), device 31 (0x1F), function 4 (0x04)
                                                                                                                 Vendor ID
Model ID
Revision ID
PI
SubClass
BaseClass
Cache Line
Latency
Header
                                                                                                                                                                                                                                                                                                                                                                                                                        0xA2A3
0x00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0x00
                                                                                                                                                                                                                                                                                                                                                                                                                      0x05
0x0C
0x00
PCI heade
                                                                                                                 Address 0 (mem
Address 4 (port)
Subvendor ID
Subsystem ID
Int. Line
Int. Pin
                                                                                                                                                                                                                                           0x0000000DF44A004
                                                                                                                                                                                                                                         0x0000F040
                                                                                                                                                                                                                                                                                                                                                                                                                     0x1462 (MSI)
0x7B46
0x0B
0x01
                                                                                                                                                                                                                          A0
B0
C0
D0
E0
F0
                                                                                                                                                                                                                                                                                                                                                                                                                        Ethernet Controller
bus 0 (0x00), device 31 (0x1F), function 6 (0x06)
Location
Common header
                                                                                                                 Vendor ID
Model ID
Revision ID
PI
SubClass
BaseClass
Cache Line
Latency
Header
                                                                                                                                                                                                                                                                                                                                                                                                                      0x8086 (Intel)
0x1588
0x00
                                                                                                                                                                                                                                                                                                                                                                                                                      0x00
0x02
0x00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0x00
0x00
PCI heade
                                                                                                                                                                                                                                                                                                                                                                                                                      0x1462 (MSI)
0x7B46
0x00
0x01
PCI capability
                                                                                                                   Caps class
Caps offset
Caps version
                                                                                                                                                                                                                                                                                                                                                                                                                      Power Management
0xC8
1.2
PCI capability
PCI capability
                                                                                                                   Caps class
Caps offset
                                                                                                                                                                                                                                                                                                                                                                                                                      0x13
0xE0
                                                                                                                                                                                                                          PCI registers
                                                                                                                   A0
B0
C0
D0
E0
F0
                                                                                                                                                                                                                                         VGA Controller
bus 1 (0x01), device 0 (0x00), function 0 (0x00)
                                                                                                                 Vendor ID
Model ID
Revision ID
PI
SubClass
BaseClass
                                                                                                                                                                                                                                                                                                                                                                                                                      Ov10DE (NIVIDIA)
                                                                                                                                                                                                                                                                                                                                                                                                                      0x2182
0xA1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0x00
                                                                                                                                                                                                                                                                                                                                                                                                                      0x00
0x03
```

```
Cache Line
Latency
Header
PCI heade
                                                        Address 0 (memory)
Address 1 (memory)
Address 3 (memory)
Address 5 (port)
Subvendor ID
Subsystem ID
Int. Line
Int. Pin
                                                                                                                                                                                                        0x1462 (MSI)
0x375A
0x10
0x01
                                                        Caps class
Caps offset
Caps version
                                                                                                                                                                                                        Power Mai
0x60
1.2
PCI capability
                                                        Caps class
Caps offset
                                                                                                                                                                                                         Message Signalled Interrupts
0x68
PCI capability
                                                        Caps class
Caps offset
Device type
Port
Caps version
Link width
Link speed
                                                                                                                                                                                                        PCI Express
0x78
Legacy PCI-E Endpoint Device
                                                                                                                                                                                                         16x (max 16x)
8.0 GT/s (max 8.0 GT/s)
PCI extended capability
                                                        Caps class
Caps offset
                                                                                                                                                                                                        Virtual Channel
0x100
                                                        Caps class
Caps offset
                                                                                                                                                                                                        0x18
0x250
PCI extended capability
                                                        Caps class
Caps offset
                                                                                                                                                                                                        0x1E
0x258
PCI extended capability
                                                        Caps class
Caps offset
                                                                                                                                                                                                         Power Budgeting
0x128
                                                        Caps class
Caps offset
                                                                                                                                                                                                        Advanced Error Reporting
0x420
PCI extended capability
                                                        Caps class
Caps offset
Vendor
Size
                                                        Caps class
Caps offset
                                                                                                                                                                                                        Secondary PCI Express
0x900
PCI extended capability
                                                        Caps class
Caps offset
Resizable BARs
BAR 0 size
BAR 1 size
BAR 2 size
                                                                                                                                                                                                         Resizable BAR
0xBB0
                                                                                                PCI registers
                                                        A0
B0
C0
D0
E0
F0
                                                        1F0
Description
                                                                                                                                                                                                         High Definition Audio (HDA)
bus 1 (0x01), device 0 (0x00), function 1 (0x01)
Location
Common h
                                                        Vendor ID
Model ID
Revision ID
PI
SubClass
BaseClass
Cache Line
Latency
Header
                                                                                                                                                                                                        0x10DE (NVIDIA)
0x1AEB
0xA1
                                                                                                                                                                                                       0x03
0x04
0x10
                                                                                                                                                                                                                                                                                              0x00
0x80
                                                        Address 0 (memory)
Subvendor ID
Subsystem ID
Int. Line
Int. Pin
                                                                                                                                                                                                        0x1462 (MSI)
0x375A
0x11
0x02
PCI capability
                                                        Caps class
Caps offset
Caps version
                                                        Caps class
Caps offset
                                                                                                                                                                                                         Message Signalled Interrupts
0x68
PCI capability
                                                        Caps class
Caps offset
Device type
Port
Caps version
Link width
Link speed
                                                                                                                                                                                                        PCI Express
0x78
PCI-E Endpoint Device
                                                                                                                                                                                                        2.0
16x (max 16x)
8.0 GT/s (max 8.0 GT/s)
PCI extended capability
                                                        Caps class
Caps offset
                                                                                                                                                                                                        Advanced Error Reporting 
0x100
PCI registers
```

0x10

```
1F0
Description
Location
                                                                                                                                                                                                     USB Controller (xHCI)
bus 1 (0x01), device 0 (0x00), function 2 (0x02)
Common header
                                                      Vendor ID
Model ID
Revision ID
PI
SubClass
BaseClass
Cache Line
Latency
Header
                                                                                                                                                                                                   0x03
0x0C
0x10
                                                       Address 0 (memory)
Address 3 (memory)
Subvendor ID
Subsystem ID
                                                                                                                                                                                                    0x1462 (MSI)
0x375A
0x00
0x03
                                                       Int. Line
Int. Pin
PCI capability
                                                                                                                                                                                                     Message Signalled Interrupts
0x68
PCI capability
                                                      Caps class
Caps offset
Device type
Port
Caps version
Link width
Link speed
                                                                                                                                                                                                    PCI Express
0x78
PCI-E Endpoint Device
                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                    2.0
16x (max 16x)
8.0 GT/s (max 8.0 GT/s)
                                                       Caps class
Caps offset
Caps version
PCI extended capability
                                                                                                                                                                                                     Advanced Error Reporting
0x100
                                                       Caps class
Caps offset
                                                                                              PCI registers
                                                       A0
B0
C0
D0
E0
F0
                                                       1A0
1B0
1C0
1D0
                                                       1F0
                                                                                                                                                                                                     Serial Bus Controller
bus 1 (0x01), device 0 (0x00), function 3 (0x03)
                                                      Vendor ID
Model ID
Revision ID
PI
SubClass
BaseClass
Cache Line
Latency
Header
                                                                                                                                                                                                    0x10DE (NVIDIA)
                                                                                                                                                                                                    0x1AED
0xA1
                                                                                                                                                                                                    0x80
0x0C
0x10
                                                                                                                                                                                                                                                                                        0x00
0x80
PCI header
                                                      Address 0 (memory)
Subvendor ID
Subsystem ID
Int. Line
Int. Pin
                                                                                                                0xDF084000
                                                                                                                                                                                                    0x1462 (MSI)
0x375A
0x00
0x04
PCI capability
                                                                                                                                                                                                     Message Signalled Interrupts
0x68
                                                       Caps class
Caps offset
PCI capability
                                                      Caps class
Caps offset
Device type
Port
Caps version
Link width
Link speed
                                                                                                                                                                                                     PCI Express
0x78
PCI-E Endpoint Device
                                                                                                                                                                                                     16x (max 16x)
8.0 GT/s (max 8.0 GT/s)
PCI capability
                                                       Caps class
Caps offset
Caps version
                                                                                                                                                                                                    Power Management
0x84
1.2
                                                       Caps class
Caps offset
                                                                                                                                                                                                     Advanced Error Reporting
0x100
```

PCI registers

```
A0
B0
C0
D0
E0
F0
                                               1C0
1D0
                                                                                 1F0
                                                                                                                                                                       USB Controller (xHCI)
bus 3 (0x03), device 0 (0x00), function 0 (0x00)
                                              Vendor ID
Model ID
Revision ID
PI
SubClass
BaseClass
Cache Line
Latency
Header
                                                                                                                                                                       0x1B21 (ASMedia)
                                                                                                                                                                       0x2142
0x00
                                                                                                                                                                      0x03
0x0C
0x10
                                                                                                                                                                                                                                               0x00
0x00
PCI header
                                               Address 0 (memory)
Subvendor ID
Subsystem ID
Int. Line
Int. Pin
                                                                                                0x00000000DF300004
                                                                                                                                                                       0x1462 (MSI)
0x7846
0x00
0x01
PCI capability
                                               Caps class
Caps offset
                                                                                                                                                                       Message Signalled Interrupts
                                                                                                                                                                       0x50
PCI capability
                                               Caps class
Caps offset
                                                                                                                                                                       MSI-X
0x68
PCI capability
                                              Caps class
Caps offset
Caps version
                                                                                                                                                                       Powe
0x78
1.2
PCI capability
                                              Caps class
Caps offset
Device type
Port
Caps version
Link width
Link speed
                                                                                                                                                                       PCI Express
                                                                                                                                                                        0x80
Legacy PCI-E Endpoint Device
                                                                                                                                                                       2x (max 2x)
8.0 GT/s (max 8.0 GT/s)
PCI extended capability
                                               Caps class
Caps offset
                                                                                                                                                                       Advanced Error Reporting
                                                                                                                                                                       0x100
PCI extended capability
                                                                                                                                                                       Secondary PCI Express
0x200
PCI extended capability
                                               Caps class
Caps offset
                                                                                                                                                                       0x18
0x300
                                                                               PCI registers
                                                                                                00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
                                               A0
B0
C0
D0
E0
F0
                                               1A0
1B0
1C0
1D0
                                               1F0
Description
Location
Common header
                                                                                                                                                                       Network Controller
bus 4 (0x04), device 0 (0x00), function 0 (0x00)
                                              Vendor ID
Model ID
Revision ID
PI
SubClass
BaseClass
Cache Line
Latency
Header
                                                                                                                                                                       0x0030
0x01
                                                                                                                                                                                                                                               0x00
                                                                                                                                                                       0x80
                                                                                                                                                                       0x02
0x10
                                               Address 0 (me
Subvendor ID
Subsystem ID
Int. Line
Int. Pin
                                                                                                0x000000000005250004
                                                                                                                                                                       0x168C (Qu
0x3112
                                                                                                                                                                       0x00
0x01
PCI capability
                                               Caps class
Caps offset
Caps version
PCI capability
                                                                                                                                                                       Message Signalled Interrupts
0x50
                                               Caps class
Caps offset
PCI capability
```

PCI Express 0x70

Caps class Caps offset

```
Device type
Port
Caps version
Link width
Link speed
                                                                                                                                                              PCI-E Endpoint Device
                                                                                                                                                              2.0
1x (max 1x)
2.5 GT/s (max 2.5 GT/s)
                                                                                                                                                              Advanced Error Reporting
0x100
                                             Caps class
Caps offset
PCI extended capability
                                                                                                                                                              Virtual Channel
0x140
                                            Caps class
Caps offset
PCI extended capability
                                            Caps class
Caps offset
Serial (EUI-64)
PCI registers
                                                                            00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
                                            A0
B0
C0
D0
E0
F0
                                            1F0
Description
                                                                                                                                                               NVM Express (NVMe) Controller
Location
Common header
                                                                                                                                                              bus 5 (0x05), device 0 (0x00), function 0 (0x00)
                                            Vendor ID
Model ID
Revision ID
PI
SubClass
BaseClass
Cache Line
Latency
Header
                                                                                                                                                              0x144D (Samsung)
0xA804
0x00
                                                                                                                                                                                                                                  0x02
                                                                                                                                                             0x08
0x01
0x10
                                            Address 0 (memory)
Subvendor ID
Subsystem ID
Int. Line
Int. Pin
                                                                                                                                                              0x144D (Samsung)
0xA801
                                                                                                                                                              0x00
0x01
PCI capability
                                            Caps class
Caps offset
Caps version
PCI capability
                                            Caps class
Caps offset
                                                                                                                                                               Message Signalled Interrupts
                                                                                                                                                              0x50
PCI capability
                                            Caps class
Caps offset
Device type
Port
Caps version
Link width
Link speed
                                                                                                                                                              PCI Express
                                                                                                                                                               0x70
PCI-E Endpoint Device
                                                                                                                                                              2.0
4x (max 4x)
8.0 GT/s (max 8.0 GT/s)
PCI capability
                                            Caps class
Caps offset
                                                                                                                                                              MSI-X
0xB0
PCI extended capability
                                                                                                                                                              Advanced Error Reporting
0x100
PCI extended capability
                                            Caps class
Caps offset
Serial (EUI-64)
                                                                                                                                                               Device Serial Number
                                                                                                                                                              0x148
PCI extended capability
                                            Caps class
Caps offset
                                                                                                                                                               Power Budgeting
0x158
                                                                                                                                                              Secondary PCI Express
0x168
                                            Caps class
Caps offset
PCI extended capability
                                            Caps class
Caps offset
                                                                                                                                                              0x18
0x188
PCI extended capability
                                            Caps class
Caps offset
                                                                                   A0
B0
C0
D0
E0
F0
                                            1A0
1B0
1C0
1D0
```

SMBIOS Version

DMI BIOS

DMI System Information

vendor version date ROM size

manufacturer product version serial UUID SKU family

DMI Baseboard

DMI Port Connector designation designation port type connector

DMI Port Connector designation designation port type connector

DMI Port Connector

designation designation connector

DMI Port Connector designation designation port type connector

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DMI Port Connector designation DMI Port Connector

designation DMI Extension Slot

designation type populated

type populated DMI Extension Slot

designation type populated DMI Extension Slot

designation type populated

American Megatrends Inc. 1.80

MS-7B46

MS-7846 1.0 Default string (00000000-0000-0000-309C238074B8) Default string Default string

Micro-Star International Co. Ltd. Z370 KRAIT GAMING (MS-7B46) HC16091811

Micro-Star International Co. Ltd. Desktop Default string J1A1 (internal) PS2Mouse (external) Mouse Port PS/2

2.8

16384 KB

Micro-Star International Co. Ltd.

J1A1 (internal) Keyboard (external) Keyboard Port PS/2

J2A1 (internal) TV Out (external) Mini Centronics Type-14

J2A2A (internal) COM A (external) Serial Port 16550A DB-9 male

J2A2B (internal) Video (external) Video Port DB-15 female

J3A1 (internal) USB1 (external) USB Access Bus (USB)

J9A1 - TPM HDR (internal) J9C1 - PCIE DOCKING CONN (internal)

J6C2 - EXT HDMI (internal) J3C1 - GMCH FAN (internal)

J2B3 - CPU FAN (internal)

J1D1 - ITP (internal)

J9E2 - MDC INTPSR (internal) J9E4 - MDC INTPSR (internal)

J9E3 - LPC HOT DOCKING (internal) J9E1 - SCAN MATRIX (internal)

J9G1 - LPC SIDE BAND (internal) J8F1 - UNIFIED (internal)

J6F1 - LVDS (internal) J2F1 - LAI FAN (internal)

J2G1 - GFX VID (internal) J1G6 - AC JACK (internal)

J6B2

PCI Express

PCI Express

PCI Express

J6B1 yes

J6D1

J7B1 PCI Express yes

	designation type		J8B4	PCI Express	
	populated		yes		
DMI Extension Slot	designation type		J8D1	PCI Express	
DMI Extension Slot	populated		yes		
	designation type width		J8B3	PCI 32 bits	
	populated		yes		
DMI OEM Strings	string[0]		Default string		
DMI Physical Memory Array	location usage		Motherboard	System Memory	
	correction max capacity max# of devices		None 64 GB	4	
DMI Memory Device				•	
	designation format type		ChannelA-DIMM0	DIMM DDR4	
	total width data width size		64 bits 64 bits	8 GB	
	speed manufacturer		029E	3200 MHz	
	part number serial number voltage		CMK16GX4M2B3000C15	0	1.350.000
DMI data		0 0x11 0x28 0x3A 0x00 0x39 0x00 0xFE 0xFF 0x40 0x 10 0x40 0x00 0x00 0x20 0x09 0x00 0x01 0x02 0x1A 0x 20 0x40 0x80 0x0C 0x03 0x04 0x05 0x06 0x01 0x00 0x 30 0x00 0x00 0x80 0x0C 0x00 0x00 0x00 0x0	x80 x00 x05		
		40 0x43 0x68 0x61 0x6E 0x6E 0x65 0x6C 0x41 0x2D 0x 50 0x49 0x4D 0x4D 0x30 0x00 0x42 0x41 0x4E 0x4B 0x 60 0x30 0x00 0x30 0x32	x44 x20		
DMI Memory Device	designation format		ChannelA-DIMM1	DIMM	
	type total width		64 bits	DDR4	
	data width size speed		64 bits	8 GB 3200 MHz	
	manufacturer part number serial number		029E CMK16GX4M2B3000C15	0	
DMI data	voltage				1.350.000
		0 0x11 0x28 0x38 0x00 0x39 0x00 0x76 0x76 0x76 0x10 0x10 0x40 0x00 0x00 0x02 0x00 0x00 0x01 0x02 0x10 0x10	x80 x00 x05 x44		
DMI Memory Device	designation		ChannelB-DIMM0		
	format type total width		64 bits	DIMM DDR4	
	data width size speed		64 bits	8 GB 3200 MHz	
	speed manufacturer part number serial number		029E CMK16GX4M2B3000C15	3200 MH2	
DMI data	voltage	0 0x11 0x28 0x3C 0x00 0x39 0x00 0xFE 0xFF 0x40 0x	00		1.350.000
		10 0x40 0x00 0x00 0x20 0x99 0x00 0x01 0x02 0x1A 0x 20 0x40 0x80 0x0C 0x30 0x04 0x56 0x66 0x10 0x00 0x 30 0x00 0x00 0x80 0x0C 0x00 0x00 0x00 0x0	x80 x00 x05 x44		
DMI Memory Device	designation format		ChannelB-DIMM1	DIMM	
	type total width		64 bits	DDR4	
	data width size speed		64 bits	8 GB 3200 MHz	
	manufacturer part number serial number		029E CMK16GX4M2B3000C15	0	
DMI data	voltage	0 0x11 0x28 0x3D 0x00 0x39 0x00 0xFE 0xFF 0x40 0x	00		1.350.000
		10 0x40 0x00 0x00 0x20 0x20 0x00 0x01 0x02 0x1A 0x 20 0x40 0x80 0x0C 0x03 0x04 0x05 0x06 0x01 0x00 0x 30 0x00 0x00 0x80 0x0C 0x00 0x00 0x00 0x0	x80 x00 x05 x44		
DMI Processor	manufacturer		Intel(R) Corporation		
	model clock speed FSB speed		3700.0 MHz 100.0 MHz	Intel(R) Core(TM) i5-9600K CPU @ 3.7	OGHz
DMI data	multiplier max clock speed		37.0x 8300.0 MHz		
		0 0x04 0x30 0x43 0x00 0x01 0x03 0xCD 0x02 0xED 0: 10 0x09 0x00 0xFF 0xFB 0xEB 0xBF 0x03 0xBA 0x64 0x 20 0x6C 0x20 0x74 0x0E 0x41 0x32 0x40 0x00 0x41 0x 30 0x42 0x00 0x04 0x05 0x06 0x06	00		
DMI Extension Slot	designation type		PCI-Express	PCI Express	
DMI Eutopeine State	populated		yes	• ***	
DMI Extension Slot	designation type		PCI-Express 6	PCI Express	
DMI Extension Slot	populated		yes		
	designation type populated		PCI-Express 7	PCI Express	
DMI Extension Slot					

designation type populated PCI Express Drive 0/0/-1/-1 0/0/-1/-1 Device Path Name Revision Serial Capacity Type Bus Type Features Controller Volume 2110E582B803 447.1 GB Fixed SSD SATA (11)
SMART, TRIM
Serial ATA Controller - AHCl at bus 0, device 23, function 0
d:\, 447.1 GBytes (17.4 percent available) 1/1/-1/-1 Device Path Name Revision Serial Capacity Type Bus Type Features Controller Link Speed Volume \\7\scsi#disk&ven_nvme&prod_samsung_ssd_960#5&2b9413c&0&000000#(53f56307-b6bf-11d0-94f2-00a0c91efb8b)
Samsung SSD 960 EVO 250GB 3B7QCXE7 S3ESNX1K100478Z 232.9 GB NVMe (17) NVM Express (NVMe) Controller at bus 5, device 0, function 0 PCI-E $4x \otimes 8.0 \, \text{GT/s}$ c:\, 232.2 GBytes (38.8 percent available) USB Devices Dispositivo USB composito, class=0x00, subclass=0x00, vendor=0x1038, product=0x12AA
Dispositivo USB composito, class=0x00, subclass=0x00, vendor=0x2516, product=0x0137
Dispositivo USB composito, class=0x67, subclass=0x002, vendor=0x0455, product=0x014A
Generic Bluetod hadpier, class=0x60, subclass=0x001, vendor=0x0456, product=0x0410
Hub USB generico, class=0x003, subclass=0x001, vendor=0x04602, product=0x6411
Dispositivo di input USB, class=0x000, subclass=0x000, vendor=0x0803, product=0x6411
Dispositivo USB composito, class=0x000, subclass=0x000, vendor=0x04605, product=0x0483
Dispositivo USB composito, class=0x000, subclass=0x000, vendor=0x04605, product=0x0483
Dispositivo USB composito, class=0x000, subclass=0x000, vendor=0x04605, product=0x0483
Dispositivo USB composito, class=0x000, subclass=0x000, vendor=0x0465, product=0x0882 USB Device Graphics 2 Number of adapters Graphic APIs D3D NVIDIA I/O NVIDIA NVML NVIDIA NVAPI API API API API pwrMask pwrTable Intel I/O Intel oneAPI Display Adapters Display adapter 0 0x4000000 Intel(R) UHD Graphics 630 ID
Name
Board Manufacturer
Codename
Execution Units
Technology
PCI device Micro-Star International Co., Ltd. (MSI) bus 0 (0x0), device 2 (0x2), function 0 (0x0) Vendor ID Model ID Revision ID 0x8086 (0x1462) 0x3E98 (0x7B46) 0x2 31.0.101.2121 3.1 ID
Name
Board Manufacturer
Revision
Codename
Core family
Power Limit
Thermal Limit
Cores
ROP Units
TM Linit 0x10A0116 NVIDIA GeForce GTX 1660 Ti Micro-Star International Co., Ltd. (MSI) A1
TU116-400
0x168 (TU116-A)
130.0 W (current), 130.0 W (default), 140.0 W (max)
90.0 C (max), 92.0 C (slowdown), 95.0 C (shutdown) 1536 ROP Units TM Units Technology Memory type Memory size Memory bus width Current Link Width Current Link Speed PCI device 12 nm GDDR6 (Micron) 6 GB 192 bits x16 8.0 GT/s bus 1 (0x1), device 0 (0x0), function 0 (0x0) 0x10DE (0x1462) 0x2182 (0x375A) Vendor ID Model ID Revision ID 0xA1 bus 0 (0x0), device 1 (0x1), function 0 (0x0) Root device Performance Level Base Core clock Memory clock Boost Core clock Memory clock Current Core clock Memory clock Performance Level 1875.0 MHz 6001.0 MHz Performance Level 1320.0 MHz 6121.0 MHz 31.0.15.3699 3.1 Driver version WDDM Model AdapterRAM = 0x40000000 (1073741824) AdapterRAM = 0xFFF00000 (4293918720) DriverVersion = 31.0.101.2121 DriverVersion = 31.0.15.3699 DriverDate = 03/03/2023 DriverDate = 08/04/2023 Win32 VideoController Win32_VideoController Win32_VideoController Win32_VideoController Win32_VideoController Win32_VideoController Win32_VideoController XG248Q () AUS24B3 L8LMRS060911 Week 35, Year 2020 Manufacturing Date Size Max Resolution Horizontal Freq. Range Vertical Freq. Range Max Pixel Clock Gamma Factor 24.0 inches 1920 x 1080 @ 60 Hz Monitor 1 Model ID Serial HP 24o () HPN337C CNK7241K5V

PCI-Express 8

Week 24, Year 2017

Manufacturing Date Size Max Resolution Horizontal Freq. Range Vertical Freq. Range Max Pixel Clock Gamma Factor

24-80 kHz 50-76 Hz

170 MHz 2.2

Software

Microsoft Windows 11 (10.0) Professional 64-bit (Build 22621) 12.0

1920 x 1080 @ 60 Hz

Register Spaces

PCI
PCI #2
PCI Express, base address = 0x0E0000000
SMBus, base address = 0x0F040
LPC, base address = 0x0A20
LPC, base address = 0x04E

24.0 inches