



## CPU-Z

### Binaries

CPU-Z version 1.77.0.x64

### Processors

Number of processors 1  
Number of threads 4

### APICs

Processor 0  
 -- Core 0  
 -- Thread 0 0  
 -- Thread 1 1  
 -- Core 1  
 -- Thread 0 2  
 -- Thread 1 3

### Timers

ACPI timer 3.580 MHz  
 HPET timer 14.318 MHz  
 Perf timer 3.320 MHz  
 Sys timer 1.000 KHz

### Processors Information

Processor 1 ID = 0  
 Number of cores 2 (max 2)  
 Number of threads 4 (max 4)  
 Name Intel Core i3 4130  
 Codename Haswell  
 Specification Intel(R) Core(TM) i3-4130 CPU @ 3.40GHz  
 Package (platform ID) Socket 1150 LGA (0x1)  
 CPUID 6.C.3  
 Extended CPUID 6.3C  
 Core Stepping C0  
 Technology 22 nm  
 TDP Limit 54.0 Watts  
 Tjmax 100.0 °C  
 Core Speed 3399.2 MHz  
 Multiplier x Bus Speed 34.0 x 100.0 MHz  
 Stock frequency 3400 MHz  
 Instructions sets MMX, SSE, SSE2, SSE3, SSSE3, SSE4.1, SSE4.2,

|                         |  |
|-------------------------|--|
|                         | EM64T, VT-x, AES, AVX, AVX2, FMA3                        |
| L1 Data cache           | 2 x 32 KBytes, 8-way set associative, 64-byte line size  |
| L1 Instruction cache    | 2 x 32 KBytes, 8-way set associative, 64-byte line size  |
| L2 cache                | 2 x 256 KBytes, 8-way set associative, 64-byte line size |
| L3 cache                | 3 MBytes, 12-way set associative, 64-byte line size      |
| FID/VID Control         | yes  |
|                         |  |
| Turbo Mode              | not supported  |
| Max non-turbo ratio     | 34x  |
| Max turbo ratio         | 34x  |
| Max efficiency ratio    | 8x   |
| O/C bins                | none   |
| Ratio 1 core            | 34x  |
| Ratio 2 cores           | 34x  |
| Ratio 3 cores           | 34x  |
| Ratio 4 cores           | 34x  |
| TSC                     | 3400.2 MHz   |
| APERF                   | 3400.2 MHz   |
| MPERF                   | 3400.1 MHz   |
| IA Voltage Mode         | PCU adaptive   |
| IA Voltage Offset       | 0 mV   |
| GT Voltage Mode         | PCU adaptive   |
| GT Voltage Offset       | 0 mV   |
| LLC/Ring Voltage Mode   | PCU adaptive   |
| LLC/Ring Voltage Offset | 0 mV   |
| Agent Voltage Mode      | PCU adaptive   |
| Agent Voltage Offset    | 0 mV   |
|                         |  |
| Temperature 0           | 36 degC (96 degF) (Core #0)                              |
| Temperature 1           | 34 degC (93 degF) (Core #1)                              |
| Temperature 2           | 37 degC (98 degF) (Package)                              |
| Voltage 0               | 1.01 Volts (VID)   |
| Voltage 1               | +0.00 Volts (IA Offset)                                  |
| Voltage 2               | +0.00 Volts (GT Offset)                                  |
| Voltage 3               | +0.00 Volts (LLC/Ring Offset)                            |
| Voltage 4               | +0.00 Volts (System Agent Offset)                        |
| Power 0                 | 9.28 W (Package)   |
| Power 1                 | 1.76 W (IA Cores)  |
| Power 2                 | 0.09 W (GT)  |
| Power 3                 | 7.42 W (Uncore)  |
| Power 4                 | 1.73 W (DRAM)  |
| Clock Speed 0           | 3399.21 MHz (Core #0)                                    |
| Clock Speed 1           | 3399.21 MHz (Core #1)                                    |

**Chipset**

|                               |                       |
|-------------------------------|-----------------------|
| Northbridge                   | Intel Haswell rev. 06 |
| Southbridge                   | Intel H81 rev. C2     |
| Memory Type                   | DDR3                  |
| Memory Size                   | 8 GBytes              |
| Channels                      | Dual                  |
| Memory Frequency              | 666.5 MHz (1:5)       |
| CAS# latency (CL)             | 9.0                   |
| RAS# to CAS# delay (tRCD)     | 9                     |
| RAS# Precharge (tRP)          | 9                     |
| Cycle Time (tRAS)             | 24                    |
| Row Refresh Cycle Time (tRFC) | 174                   |
| Command Rate (CR)             | 1T                    |
| Uncore Frequency              | 3399.2 MHz            |
| Host Bridge                   | 0x0C00                |
| MCHBAR[0x5004]                | 0x0062001000600010    |
| current channel               | 0                     |
| MCHBAR[0x4000]                | 0x0733414411556129    |

**Memory SPD**

|                     |                                  |
|---------------------|----------------------------------|
| DIMM #              | 1                                |
| SMBus address       | 0x50                             |
| Memory type         | DDR3                             |
| Module format       | UDIMM                            |
| Manufacturer (ID)   | Kingston (7F980000000000000000)  |
| Size                | 4096 MBytes                      |
| Max bandwidth       | PC3-12800 (800 MHz)              |
| Part number         | 99U5584-001.A00LF                |
| Serial number       | 5C2DBD7D                         |
| Manufacturing date  | Week 25/Year 13                  |
| Number of banks     | 8                                |
| Nominal Voltage     | 1.50 Volts                       |
| EPP                 | no                               |
| XMP                 | no                               |
| AMP                 | no                               |
| JEDEC timings table | CL-tRCD-tRP-tRAS-tRC @ frequency |
| JEDEC #1            | 6.0-6-6-16-22 @ 457 MHz          |
| JEDEC #2            | 7.0-7-7-19-26 @ 533 MHz          |
| JEDEC #3            | 8.0-8-8-22-30 @ 609 MHz          |
| JEDEC #4            | 9.0-9-9-24-33 @ 685 MHz          |
| JEDEC #5            | 10.0-10-10-27-37 @ 761 MHz       |
| JEDEC #6            | 11.0-11-11-28-39 @ 800 MHz       |

|               |       |
|---------------|-------|
| DIMM #        | 2     |
| SMBus address | 0x52  |
| Memory type   | DDR3  |
| Module format | UDIMM |

|                     |                                  |
|---------------------|----------------------------------|
| Manufacturer (ID)   | Kingston (7F980000000000000000)  |
| Size                | 4096 MBytes                      |
| Max bandwidth       | PC3-10700 (667 MHz)              |
| Part number         | 99U5471-020.A00LF                |
| Serial number       | 720C3489                         |
| Manufacturing date  | Week 49/Year 12                  |
| Number of banks     | 8                                |
| Nominal Voltage     | 1.50 Volts                       |
| EPP                 | no                               |
| XMP                 | no                               |
| AMP                 | no                               |
| JEDEC timings table | CL-tRCD-tRP-tRAS-tRC @ frequency |
| JEDEC #1            | 6.0-6-6-17-23 @ 457 MHz          |
| JEDEC #2            | 7.0-7-7-20-27 @ 533 MHz          |
| JEDEC #3            | 8.0-8-8-22-30 @ 609 MHz          |
| JEDEC #4            | 9.0-9-9-24-33 @ 666 MHz          |

## Monitoring

Mainboard Model H81M-A (0x0000016C - 0x00517220)

## LPCIO

LPCIO Vendor Nuvoton  
 LPCIO Model NCT6791  
 LPCIO Vendor ID 0x5CA3  
 LPCIO Chip ID 0xC8  
 LPCIO Revision ID 0x3

## Hardware Monitors

Hardware monitor Nuvoton NCT6791D

|               |  |
|---------------|--|
| Voltage 0     | 5.12 Volts [0x80] (+5V)                |
| Voltage 1     | 3.41 Volts [0xD5] (+3.3V)              |
| Voltage 2     | 12.00 Volts [0x7D] (+12V)              |
| Voltage 3     | 0.13 Volts [0x10] (VIN3)               |
| Voltage 4     | 0.26 Volts [0x10] (VIN4)               |
| Voltage 5     | 1.70 Volts [0x6A] (VCORE)              |
| Temperature 0 | 117 degC (242 degF) [0x75] (Mainboard) |
| Temperature 1 | 37 degC (98 degF) [0x25] (CPU)         |
| Fan 1         | 1185 RPM [0x4A1] (CPU)                 |

Hardware monitor ACPI

|               |                                  |
|---------------|----------------------------------|
| Temperature 0 | 28 degC (82 degF) [0xBC2] (TZ00) |
| Temperature 1 | 30 degC (85 degF) [0xBD6] (TZ01) |

Hardware monitor Intel I/O

|               |                               |
|---------------|-------------------------------|
| Clock Speed 0 | 599.86 MHz [0x257] (Graphics) |
|---------------|-------------------------------|

**PCI Devices**

|               |   |
|---------------|---|
| Description   | Host Bridge                                       |
| Location      | bus 0 (0x00), device 0 (0x00), function 0 (0x00)  |
| Common header |   |
| Vendor ID     | 0x8086  |
| Model ID      | 0x0C00  |
| Revision ID   | 0x06  |
| Description   | PCI to PCI Bridge                                 |
| Location      | bus 0 (0x00), device 1 (0x01), function 0 (0x00)  |
| Common header |   |
| Vendor ID     | 0x8086  |
| Model ID      | 0x0C01  |
| Revision ID   | 0x06  |
| Description   | VGA Controller                                    |
| Location      | bus 0 (0x00), device 2 (0x02), function 0 (0x00)  |
| Common header |   |
| Vendor ID     | 0x8086  |
| Model ID      | 0x041E  |
| Revision ID   | 0x06  |
| Description   | USB Controller                                    |
| Location      | bus 0 (0x00), device 20 (0x14), function 0 (0x00) |
| Common header |   |
| Vendor ID     | 0x8086  |
| Model ID      | 0x8C31  |
| Revision ID   | 0x05  |
| Description   | Communication Device                              |
| Location      | bus 0 (0x00), device 22 (0x16), function 0 (0x00) |
| Common header |   |
| Vendor ID     | 0x8086  |
| Model ID      | 0x8C3A  |
| Revision ID   | 0x04  |
| Description   | USB 2.0 Controller (EHCI)                         |
| Location      | bus 0 (0x00), device 26 (0x1A), function 0 (0x00) |
| Common header |   |
| Vendor ID     | 0x8086  |
| Model ID      | 0x8C2D  |
| Revision ID   | 0x05  |
| Description   | Multimedia device                                 |
| Location      | bus 0 (0x00), device 27 (0x1B), function 0 (0x00) |
| Common header |   |

|               |   |
|---------------|---|
| Vendor ID     | 0x8086  |
| Model ID      | 0x8C20  |
| Revision ID   | 0x05  |
| Description   | PCI to PCI Bridge                                 |
| Location      | bus 0 (0x00), device 28 (0x1C), function 0 (0x00) |
| Common header |   |
| Vendor ID     | 0x8086  |
| Model ID      | 0x8C10  |
| Revision ID   | 0xD5  |
| Description   | PCI to PCI Bridge                                 |
| Location      | bus 0 (0x00), device 28 (0x1C), function 2 (0x02) |
| Common header |   |
| Vendor ID     | 0x8086  |
| Model ID      | 0x8C14  |
| Revision ID   | 0xD5  |
| Description   | USB 2.0 Controller (EHCI)                         |
| Location      | bus 0 (0x00), device 29 (0x1D), function 0 (0x00) |
| Common header |   |
| Vendor ID     | 0x8086  |
| Model ID      | 0x8C26  |
| Revision ID   | 0x05  |
| Description   | PCI to ISA Bridge                                 |
| Location      | bus 0 (0x00), device 31 (0x1F), function 0 (0x00) |
| Common header |   |
| Vendor ID     | 0x8086  |
| Model ID      | 0x8C5C  |
| Revision ID   | 0x05  |
| Description   | Serial ATA Controller                             |
| Location      | bus 0 (0x00), device 31 (0x1F), function 2 (0x02) |
| Common header |   |
| Vendor ID     | 0x8086  |
| Model ID      | 0x8C02  |
| Revision ID   | 0x05  |
| Description   | SMBus Controller                                  |
| Location      | bus 0 (0x00), device 31 (0x1F), function 3 (0x03) |
| Common header |   |
| Vendor ID     | 0x8086  |
| Model ID      | 0x8C22  |
| Revision ID   | 0x05  |
| Description   | Ethernet Controller                               |

Location bus 3 (0x03), device 0 (0x00), function 0 (0x00)  
Common header  
Vendor ID 0x10EC  
Model ID 0x8168  
Revision ID 0x0C

**DMI**

## DMI BIOS

vendor American Megatrends Inc.  
version 2203  
date 05/26/2015  
ROM size 8192 KB

## DMI System Information

manufacturer ASUS  
product All Series  
version System Version  
serial System Serial Number  
UUID {E3108D03-E48E-F94B-ADEE-AC220B4EC58C}  
SKU All  
family ASUS MB

## DMI Baseboard

vendor ASUSTeK COMPUTER INC.  
model H81M-A  
revision Rev X.0x  
serial 130814780003267

## DMI System Enclosure

manufacturer Chassis Manufacture  
chassis type Desktop  
chassis serial Chassis Serial Number

## DMI Port Connector

designation PS/2 Keyboard (internal)  
designation PS/2 Keyboard (external)  
port type Keyboard Port  
connector PS/2

## DMI Port Connector

designation PS/2 Mouse (internal)  
designation PS/2 Mouse (external)  
port type Mouse Port  
connector PS/2

## DMI Port Connector

|                    |                      |
|--------------------|----------------------|
| designation        | USB34 (internal)     |
| designation        | USB34 (external)     |
| port type          | USB                  |
| connector          | Access Bus (USB)     |
| DMI Port Connector |                      |
| designation        | USB56 (internal)     |
| designation        | USB56 (external)     |
| port type          | USB                  |
| connector          | Access Bus (USB)     |
| DMI Port Connector |                      |
| designation        | GbE LAN (internal)   |
| designation        | GbE LAN (external)   |
| port type          | Network Port         |
| connector          | RJ-45                |
| DMI Port Connector |                      |
| designation        | AUDIO (internal)     |
| designation        | AUDIO (external)     |
| port type          | Audio Port           |
| DMI Port Connector |                      |
| designation        | DVI (internal)       |
| designation        | DVI port (external)  |
| DMI Port Connector |                      |
| designation        | VGA (internal)       |
| designation        | VGA port (external)  |
| DMI Port Connector |                      |
| designation        | HDMI (internal)      |
| designation        | HDMI port (external) |
| DMI Port Connector |                      |
| designation        | SATA6G_1 (internal)  |
| DMI Port Connector |                      |
| designation        | SATA6G_2 (internal)  |
| DMI Port Connector |                      |
| designation        | SATA3G_1 (internal)  |
| DMI Port Connector |                      |
| designation        | SATA3G_2 (internal)  |
| DMI Port Connector |                      |



|                    |                        |
|--------------------|------------------------|
| designation        | USB3_12 (internal)     |
| port type          | USB                    |
| connector          | Access Bus (USB)       |
| DMI Port Connector |                        |
| designation        | USB9_10 (internal)     |
| port type          | USB                    |
| connector          | Access Bus (USB)       |
| DMI Port Connector |                        |
| designation        | USB11_12 (internal)    |
| port type          | USB                    |
| connector          | Access Bus (USB)       |
| DMI Port Connector |                        |
| designation        | AAFP (internal)        |
| port type          | Audio Port             |
| connector          | Mini Jack (headphones) |
| DMI Port Connector |                        |
| designation        | CPU_FAN (internal)     |
| DMI Port Connector |                        |
| designation        | CHA_FAN (internal)     |
| DMI Port Connector |                        |
| designation        | SPDIF_OUT (internal)   |
| DMI Extension Slot |                        |
| designation        | PCIEX16_1              |
| type               | A5                     |
| populated          | no                     |
| DMI Extension Slot |                        |
| designation        | PCIEX1_1               |
| type               | A5                     |
| populated          | no                     |
| DMI Extension Slot |                        |
| designation        | PCIEX1_2               |
| type               | A5                     |
| populated          | yes                    |
| DMI OEM Strings    |                        |
| string[0]          | To Be Filled By O.E.M. |
| string[1]          | To Be Filled By O.E.M. |
| string[2]          | Rose                   |

string[3]

To Be Filled By O.E.M.

**DMI Memory Device**

|             |                |
|-------------|----------------|
| designation | ChannelA-DIMM0 |
| format      | DIMM           |
| type        | unknown        |
| total width | 64 bits        |
| data width  | 64 bits        |
| size        | 4096 MBytes    |

**DMI Physical Memory Array**

|                 |               |
|-----------------|---------------|
| location        | Motherboard   |
| usage           | System Memory |
| correction      | None          |
| max capacity    | 16384 MBytes  |
| max# of devices | 2             |

**DMI Memory Device**

|             |                |
|-------------|----------------|
| designation | ChannelB-DIMM0 |
| format      | DIMM           |
| type        | unknown        |
| total width | 64 bits        |
| data width  | 64 bits        |
| size        | 4096 MBytes    |

**DMI Processor**

|              |   |
|--------------|---|
| manufacturer | Intel                                   |
| model        | Intel(R) Core(TM) i3-4130 CPU @ 3.40GHz |
| clock speed  | 3418.0 MHz                              |
| FSB speed    | 100.0 MHz                               |
| multiplier   | 34.0x                                   |

**Graphics**

|                    |   |
|--------------------|---|
| Number of adapters | 1 |
|--------------------|---|

**Graphic APIs**

|     |           |
|-----|-----------|
| API | Intel I/O |
|-----|-----------|

**Display Adapters****Display adapter 0**

|                    |   |
|--------------------|---|
| Display name       | \\.\DISPLAY1                                  |
| Name               | Intel(R) HD Graphics 4400                     |
| Board Manufacturer | ASUSTeK Computer Inc.                         |
| Memory size        | 1024 MB                                       |
| PCI device         | bus 0 (0x0), device 2 (0x2), function 0 (0x0) |
| Vendor ID          | 0x8086 (0x1043)                               |

|                        |   |
|------------------------|---|
| Model ID               | 0x041E (0x8534)   |
| Performance Level      | 0   |
| Core clock             | 599.9 MHz   |
| Win32_VideoController  | AdapterRAM = 0x40000000 (1073741824)                          |
| Win32_VideoController  | DriverVersion = 20.19.15.4531                                 |
| Win32_VideoController  | DriverDate = 09/29/2016                                       |
| Monitor 0              |   |
| Model                  | HP LP2065 (Hewlett Packard)                                   |
| ID                     | HWP0A72   |
| Serial                 | CNG7050B1G  |
| Manufacturing Date     | Week 5, Year 2007   |
| Size                   | 20.2 inches   |
| Max Resolution         | 1600 x 1200 @ 60 Hz   |
| Horizontal Freq. Range | 30-92 kHz   |
| Vertical Freq. Range   | 48-85 Hz  |
| Max Pixel Clock        | 170 MHz   |
| Gamma Factor           | 2.2   |
| <b>Software</b>        |   |
| Windows Version        | Microsoft Windows 10 (10.0) Professional 64-bit (Build 15063) |
| DirectX Version        | 12.0  |