



CPU-Z

Binaries

CPU-Z version 1.87.0.x64

Processors

Number of sockets 1
Number of threads 4

APICs

Socket 0
-- Core 0 (ID 0)
-- Thread 0 0
-- Thread 1 1
-- Core 1 (ID 1)
-- Thread 2 2
-- Thread 3 3

Timers

ACPI timer 3.580 MHz
Perf timer 2.051 MHz
Sys timer 1.000 KHz

Processors Information

Socket 1 ID = 0
Number of cores 2 (max 2)
Number of threads 4 (max 4)
Name Intel Core i3 5015U
Codename Broadwell-U
Specification Intel(R) Core(TM) i3-5015U CPU @ 2.10GHz
Package (platform ID) Socket 1168 BGA (0x6)
CPUID 6.D.4
Extended CPUID 6.3D
Core Stepping E0/F0
Technology 14 nm
TDP Limit 15.0 Watts
Tjmax 105.0 °C
Core Speed 1699.6 MHz
Multiplier x Bus Speed 17.0 x 100.0 MHz
Base frequency (cores) 100.0 MHz
Base frequency (ext.) 100.0 MHz
Stock frequency 2100 MHz

Instructions sets	MMX, SSE, SSE2, SSE3, SSSE3, SSE4.1, SSE4.2, EM64T, VT-x, AES, AVX, AVX2, FMA3
Microcode Revision	0x1F
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
Max CPUID level	00000014h
Max CPUID ext. level	80000008h
Cache descriptor	Level 1, D, 32 KB, 2 thread(s)
Cache descriptor	Level 1, I, 32 KB, 2 thread(s)
Cache descriptor	Level 2, U, 256 KB, 2 thread(s)
Cache descriptor	Level 3, U, 3 MB, 16 thread(s)
FID/VID Control	yes
IBRS	not supported
IBPB	not supported
STIBP	not supported
RDCL_NO	no
IBRS_ALL	not supported
Turbo Mode	supported, disabled
Max non-turbo ratio	21x
Max turbo ratio	21x
Max efficiency ratio	5x
O/C bins	none
Ratio 1 core	21x
Ratio 2 cores	21x
Ratio 3 cores	21x
Ratio 4 cores	21x
Ratio 5 cores	21x
Ratio 6 cores	21x
IA Voltage Mode	PCU adaptive
IA Voltage Offset	0 mV
GT Voltage Mode	PCU adaptive
GT Voltage Offset	0 mV
LLC/Ring Voltage Mode	PCU adaptive
LLC/Ring Voltage Offset	0 mV
Agent Voltage Mode	PCU adaptive
Agent Voltage Offset	0 mV
TDP Level	15.0 W @ 21x
TDP Level	10.0 W @ 6x
Temperature 0	44 degC (111 degF) (Package)
Temperature 1	44 degC (111 degF) (Core #0)
Temperature 2	44 degC (111 degF) (Core #1)
Voltage 0	0.78 Volts (VID)
Voltage 1	+0.00 Volts (IA Offset)

Voltage 2	+0.00 Volts (GT Offset)
Voltage 3	+0.00 Volts (LLC/Ring Offset)
Voltage 4	+0.00 Volts (System Agent Offset)
Power 00	2.64 W (Package)
Power 01	0.51 W (IA Cores)
Power 02	0.00 W (GT)
Power 03	1.62 W (Uncore)
Power 04	0.51 W (DRAM)
Clock Speed 0	1699.60 MHz (Core #0)
Clock Speed 1	799.81 MHz (Core #1)
Core 0 max ratio	21.0 (effective 21.0)
Core 1 max ratio	21.0 (effective 21.0)

Chipset

Northbridge	Intel Broadwell-U rev. 09
Southbridge	Intel Broadwell-U PCH L-P rev. 03
Memory Type	DDR3
Memory Size	4 GBytes
Channels	Single
Memory Frequency	799.9 MHz (1:6)
CAS# latency (CL)	11.0
RAS# to CAS# delay (tRCD)	11
RAS# Precharge (tRP)	11
Cycle Time (tRAS)	28
Row Refresh Cycle Time (tRFC)	208
Command Rate (CR)	1T
Uncore Frequency	799.8 MHz
Host Bridge	0x1604

Memory SPD

DIMM #	1
SMBus address	0x50
Memory type	DDR3L
Module format	SO-DIMM
Manufacturer (ID)	(7F7F7F7F7F7F7F9E000000)
Size	4096 MBytes
Max bandwidth	PC3-12800 (800 MHz)
Part number	TMT451S6BFR8A-PBHJ
Serial number	0063E46D
Manufacturing date	Week 38/Year 15
Number of banks	8
Nominal Voltage	1.35 Volts
EPP	no
XMP	no
AMP	no

JEDEC timings table

JEDEC #1
JEDEC #2
JEDEC #3
JEDEC #4
JEDEC #5
JEDEC #6
JEDEC #7

CL-tRCD-tRP-tRAS-tRC @ frequency

5.0-5-5-14-19 @ 380 MHz
6.0-6-6-16-22 @ 457 MHz
7.0-7-7-19-26 @ 533 MHz
8.0-8-8-22-30 @ 609 MHz
9.0-9-9-24-33 @ 685 MHz
10.0-10-10-27-37 @ 761 MHz
11.0-11-11-28-39 @ 800 MHz

Monitoring

Mainboard Model

ZORO_BH (0x00000233 - 0x006EB688)

LPCIO

Hardware Monitors

Hardware monitor

D3D

Hardware monitor

Temperature 0
Clock Speed 0

Intel I/O

44 degC (111 degF) [0x2C] (GPU)
849.80 MHz [0x351] (Graphics)

PCI Devices

Description

Host Bridge

Location

bus 0 (0x00), device 0 (0x00), function 0 (0x00)

Common header

Vendor ID
Model ID
Revision ID

0x8086
0x1604
0x09

Description

VGA Controller

Location

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

Common header

Vendor ID
Model ID
Revision ID

0x8086
0x1616
0x09

Description

USB Controller

Location

bus 0 (0x00), device 20 (0x14), function 0 (0x00)

Common header

Vendor ID
Model ID
Revision ID

0x8086
0x9CB1
0x03

Description

Communication Device

Location

bus 0 (0x00), device 22 (0x16), function 0 (0x00)

Common header

Vendor ID	0x8086
Model ID	0x9CBA
Revision ID	0x03
Description	Multimedia device
Location	bus 0 (0x00), device 27 (0x1B), function 0 (0x00)
Common header	
Vendor ID	0x8086
Model ID	0x9CA0
Revision ID	0x03
Description	PCI to PCI Bridge
Location	bus 0 (0x00), device 28 (0x1C), function 0 (0x00)
Common header	
Vendor ID	0x8086
Model ID	0x9C90
Revision ID	0xE3
Description	PCI to PCI Bridge
Location	bus 0 (0x00), device 28 (0x1C), function 2 (0x02)
Common header	
Vendor ID	0x8086
Model ID	0x9C94
Revision ID	0xE3
Description	PCI to PCI Bridge
Location	bus 0 (0x00), device 28 (0x1C), function 3 (0x03)
Common header	
Vendor ID	0x8086
Model ID	0x9C96
Revision ID	0xE3
Description	USB 2.0 Controller (EHCI)
Location	bus 0 (0x00), device 29 (0x1D), function 0 (0x00)
Common header	
Vendor ID	0x8086
Model ID	0x9CA6
Revision ID	0x03
Description	PCI to ISA Bridge
Location	bus 0 (0x00), device 31 (0x1F), function 0 (0x00)
Common header	
Vendor ID	0x8086
Model ID	0x9CC5
Revision ID	0x03
Description	Serial ATA Controller

Location	bus 0 (0x00), device 31 (0x1F), function 2 (0x02)
Common header	
Vendor ID	0x8086
Model ID	0x9C83
Revision ID	0x03
Description	SMBus Controller
Location	bus 0 (0x00), device 31 (0x1F), function 3 (0x03)
Common header	
Vendor ID	0x8086
Model ID	0x9CA2
Revision ID	0x03
Description	Ethernet Controller
Location	bus 2 (0x02), device 0 (0x00), function 0 (0x00)
Common header	
Vendor ID	0x10EC
Model ID	0x8168
Revision ID	0x15
Description	Network Controller
Location	bus 3 (0x03), device 0 (0x00), function 0 (0x00)
Common header	
Vendor ID	0x168C
Model ID	0x0036
Revision ID	0x01

DMI

DMI BIOS

vendor	Insyde Corp.
version	V1.31
date	09/25/2015
ROM size	4608 KB

DMI System Information

manufacturer	Acer
product	Aspire E5-573
version	V3.72
serial	NXG5TAL0085469D7B39501
UUID	{6AF79411-F183-E511-9803-1C394753986E}
SKU	Aspire E5-573_098A_1_31
family	BDW

DMI Baseboard

vendor	Acer
model	ZORO_BH

revision	Type2 - A01 Board Version
serial	NBVB011002547011EE9501
DMI System Enclosure	
manufacturer	Chassis Manufacturer
chassis type	Notebook
chassis serial	Chassis Serial Number
DMI Processor	
manufacturer	Intel(R) Corporation
model	Intel(R) Core(TM) i3-5015U CPU @ 2.10GHz
clock speed	2100.0 MHz
FSB speed	100.0 MHz
multiplier	21.0x
DMI Memory Module	
designation	ChannelA-DIMM0
size	4096 MBytes (single bank)
DMI Memory Module	
designation	ChannelB-DIMM0
DMI OEM Strings	
string[0]	OemString1
string[1]	OemString2
string[2]	OemString3
string[3]	OemString4
string[4]	OemString5
string[5]	OemString6
DMI Physical Memory Array	
location	Motherboard
usage	System Memory
correction	None
max capacity	16 GB
max# of devices	2
DMI Memory Device	
designation	ChannelA-DIMM0
format	SODIMM
type	DDR3
total width	64 bits
data width	64 bits
size	4 GB
DMI Memory Device	
designation	ChannelB-DIMM0

format	DIMM
type	unknown
Graphics	
Number of adapters	1
Graphic APIs	
API	D3D
API	Intel I/O
Display Adapters	
Display adapter 0	
ID	0x4000000
Name	Intel(R) HD Graphics 5500
Board Manufacturer	0x1025 (0x098A)
PCI device	bus 0 (0x0), device 2 (0x2), function 0 (0x0)
Vendor ID	0x8086 (0x1025)
Model ID	0x1616 (0x098A)
Revision ID	0x9
Performance Level	0
Core clock	850.0 MHz
Win32_VideoController	AdapterRAM = 0x40000000 (1073741824)
Win32_VideoController	DriverVersion = 20.19.15.4531
Win32_VideoController	DriverDate = 09/29/2016
Monitor 0	
Model	()
ID	CMN15CA
Serial	
Manufacturing Date	Week 34, Year 2014
Size	15.3 inches
Max Resolution	1366 x 768 @ 60 Hz
Horizontal Freq. Range	0-0 kHz
Vertical Freq. Range	0-0 Hz
Max Pixel Clock	0 MHz
Gamma Factor	2.2
Software	
Windows Version	Microsoft Windows 7 (6.1) Professional 64-bit Service Pack 1 (Build 7601)
DirectX Version	11.0