

## Lista de Exercícios N° 11

01 – a) Processador: Intel Celeron N2830

Frequência do Clock: 2.16 GHz

Número de Núcleos: 2

b) Tipo: DDR3

Capacidade: 4GB

Frequência: 666.7 MHz

c) L1 Data: 2 x 24KB,

L1 Inst.: 2 x 32KB,

L2: 1MB

d) Tipo: SATA-III 6.0Gb/s

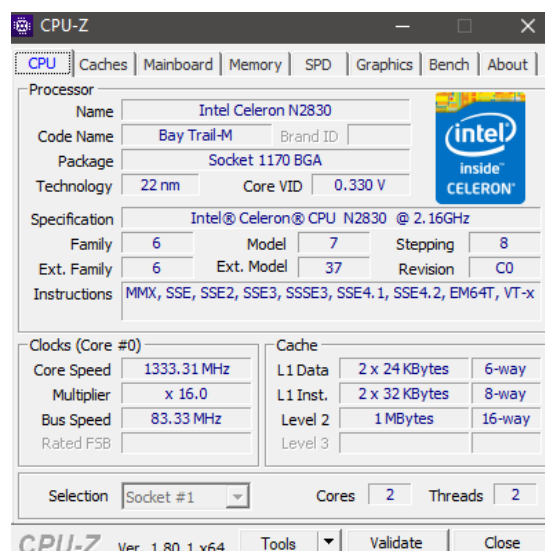
Capacidade: 465 GB

Barramento: SATA

02 – 1456MB

Tamanho total do arquivo de paginação

Mínimo permitido:	16 MB
Recomendável:	1394 MB
Atualmente alocado:	1456 MB



**CPU-Z** Ver. 1.80.1.x64

**Processor**

Name	Intel Celeron N2830		
Code Name	Bay Trail-M	Brand ID	
Package	Socket 1170 BGA		
Technology	22 nm	Core VID	0.330 V

**Specification**

Intel® Celeron® CPU N2830 @ 2.16GHz			
Family	6	Model	7
Ext. Family	6	Ext. Model	37
Stepping	8	Revision	C0
Instructions	MMX, SSE, SSE2, SSE3, SSSE3, SSE4.1, SSE4.2, EM64T, VT-x		

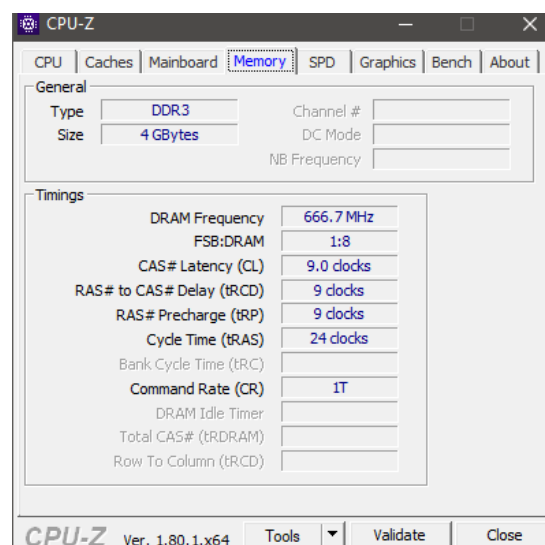
**Clocks (Core #0)**

Core Speed	1333.31 MHz
Multiplier	x 16.0
Bus Speed	83.33 MHz
Rated FSB	

**Cache**

L1 Data	2 x 24 KBytes	6-way
L1 Inst.	2 x 32 KBytes	8-way
Level 2	1 MBytes	16-way
Level 3		

Selection: Socket #1 | Cores: 2 | Threads: 2



**CPU-Z** Ver. 1.80.1.x64

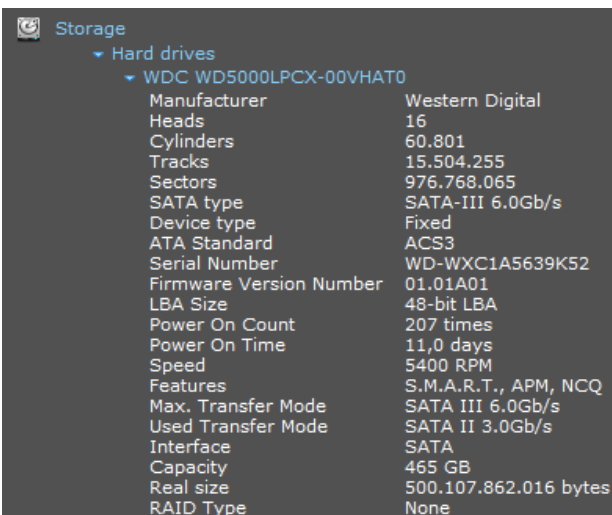
**Memory**

**General**

Type	DDR3	Channel #	
Size	4 GBytes	DC Mode	
		NB Frequency	

**Timings**

DRAM Frequency	666.7 MHz
FSB:DRAM	1:8
CAS# Latency (CL)	9.0 clocks
RAS# to CAS# Delay (tRCD)	9 clocks
RAS# Precharge (tRP)	9 clocks
Cycle Time (tRAS)	24 clocks
Bank Cycle Time (tRC)	
Command Rate (CR)	1T
DRAM Idle Timer	
Total CAS# (tRDRAM)	
Row To Column (tRCD)	



**Storage**

▼ Hard drives

▼ WDC WD5000LPCX-00VHAT0

Manufacturer	Western Digital
Heads	16
Cylinders	60.801
Tracks	15.504.255
Sectors	976.768.065
SATA type	SATA-III 6.0Gb/s
Device type	Fixed
ATA Standard	ACS3
Serial Number	WD-WXC1A5639K52
Firmware Version Number	01.01A01
LBA Size	48-bit LBA
Power On Count	207 times
Power On Time	11,0 days
Speed	5400 RPM
Features	S.M.A.R.T., APM, NCQ
Max. Transfer Mode	SATA III 6.0Gb/s
Used Transfer Mode	SATA II 3.0Gb/s
Interface	SATA
Capacity	465 GB
Real size	500.107.862.016 bytes
RAID Type	None

03 -

Microcontroller	ATmega328P
Operating Voltage	5V
Input Voltage (recommended)	7-12V
Input Voltage (limit)	6-20V
Digital I/O Pins	14 (of which 6 provide PWM output)
PWM Digital I/O Pins	6
Analog Input Pins	6
DC Current per I/O Pin	20 mA
DC Current for 3.3V Pin	50 mA
Flash Memory	32 KB (ATmega328P) of which 0.5 KB used by bootloader
SRAM	2 KB (ATmega328P)
EEPROM	1 KB (ATmega328P)
Clock Speed	16 MHz
LED_BUILTIN	13
Length	68.6 mm
Width	53.4 mm
Weight	25 g