Roteiro 10 - Laboratório de Organização e Arquitetura de Computadores

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PROBLEMA 1

a) Processador Intel Core i3 7020U, 64 bits, clock de frequência 2.3GHz, 4 núcleos e multithread.

b) Memória RAM R/W DDR4 de 8GB e frequência 2666MHz.

c)

```
*-cache:0
     description: L1 cache
     physical id: 19
     slot: L1 Cache
     size: 128KiB
     capacity: 128KiB
     capabilities: synchronous internal write-back unified
     configuration: level=1
*-cache:1
     description: L2 cache
     physical id: 1a
     slot: L2 Cache
     size: 512KiB
     capacity: 512KiB
     capabilities: synchronous internal write-back unified
     configuration: level=2
*-cache:2
     description: L3 cache
     physical id: 1b
     slot: L3 Cache
     size: 3MiB
     capacity: 3MiB
     capabilities: synchronous internal write-back unified
     configuration: level=3
```

d)

```
*-disk
     description: ATA Disk
     product: KINGSTON SA400S3
     physical id: 0.0.0
     bus info: scsi@0:0.0.0
     logical name: /dev/sda
     version: B1D1
     serial: 50026B7782953DC9
     size: 111GiB (120GB)
     capabilities: gpt-1.00 partitioned partitioned:gpt
     configuration: ansiversion=5 guid=8f3a3ed2-732b-4297-9d3e-fcd9ab5192dc logicalsectorsize=512 sectorsize=512
```

e) 8GB de memória virtual (visível em Swp)

```
0[|||||||||||||||||||||||||||||||||||||||       53.6%]  Tasks: 266, 1319 thr, 127 kthr; 1 running
1[|||||||||||||||||||||||||||||||||             47.3%]  Load average: 5.43 3.33 2.76
2[|||||||||||||||||||||||||||||||||             47.0%]  Uptime: 4 days, 14:12:20
3[|||||||||||||||||||||||||||||                 41.8%]
Mem[|||||||||||||||||||||||||||||||||||||||||4.63G/7.66G]
Swp[||||||||||||||||||            2.23G/7.65G]
```

f) Mouse e teclado que transmitem de forma paralela e assíncrona
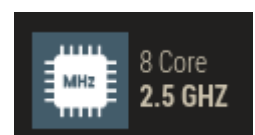
```
*-usb:0
     description: Mouse
     product: Gaming Mouse Keyboard
     vendor: Pixart Imaging, Inc.
     physical id: 1
     bus info: usb@1:1
     logical name: input31
     logical name: /dev/input/event16
     logical name: /dev/input/mouse3
     logical name: input33
     logical name: /dev/input/event17
     version: 1.00
     capabilities: usb-2.00 usb
     configuration: driver=usbhid maxpower=100mA speed=12Mbit/s
*-usb:1
     description: Keyboard
     product: SINO WEALTH Gaming KB  Keyboard
     vendor: SINO WEALTH
     physical id: 2
     bus info: usb@1:2
     logical name: input34
     logical name: /dev/input/event4
     logical name: input34::capslock
     logical name: input34::compose
     logical name: input34::kana
     logical name: input34::numlock
     logical name: input34::scrolllock
     logical name: input35
     logical name: /dev/input/event5
     logical name: input36
     logical name: /dev/input/event18
     logical name: input37
     logical name: /dev/input/event19
     version: 10.01
     capabilities: usb-1.10 usb
     configuration: driver=usbhid maxpower=500mA speed=12Mbit/s
```
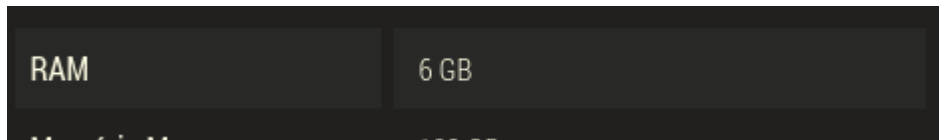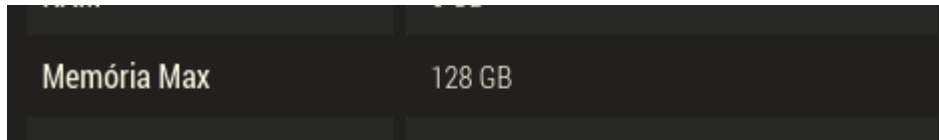
PROBLEMA 2
a) Infos sobre o processador.

Processador	1x 2.9 GHz Cortex-X1 + 3x 2.8 GHz Cortex-A78 + 4x 2.2 GHz Cortex-A55
Chipset	SAMSUNG Exynos 2100
64 Bit	✔

8 Core
2.5 GHZ

b)

| RAM | 6 GB |

c)

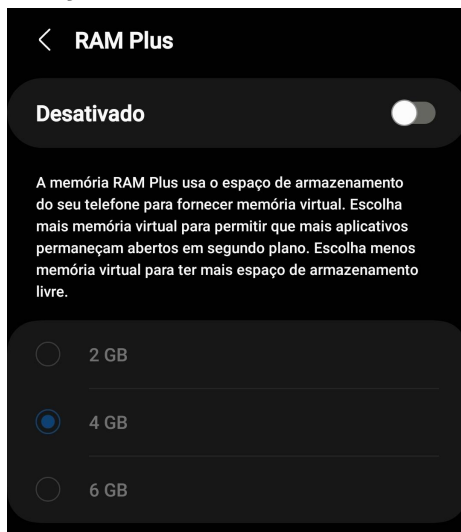| Memória Max | 128 GB |

d) A opção de memória virtual está desativada, mas pode ser 2GB, 4GB ou 8GB.

RAM Plus

Desativado

A memória RAM Plus usa o espaço de armazenamento do seu telefone para fornecer memória virtual. Escolha mais memória virtual para permitir que mais aplicativos permaneçam abertos em segundo plano. Escolha menos memória virtual para ter mais espaço de armazenamento livre.

○ 2 GB

◉ 4 GB

○ 6 GB

e)

| GPU | Mali-G78 MP14 |