



Donut OS

MAIS QUE UM SISTEMA OPERACIONAL, UM OPERATIONAL SYSTEM





**VOCÊ ESTÁ CANSADO DAS
OPÇÕES CONVENCIONAIS DE
SISTEMAS OPERACIONAIS QUE
NÃO ATENDEM AO SEU GOSTO?**





1

Portabilidade



2

Viagens!



3

Escalável



4

Donut

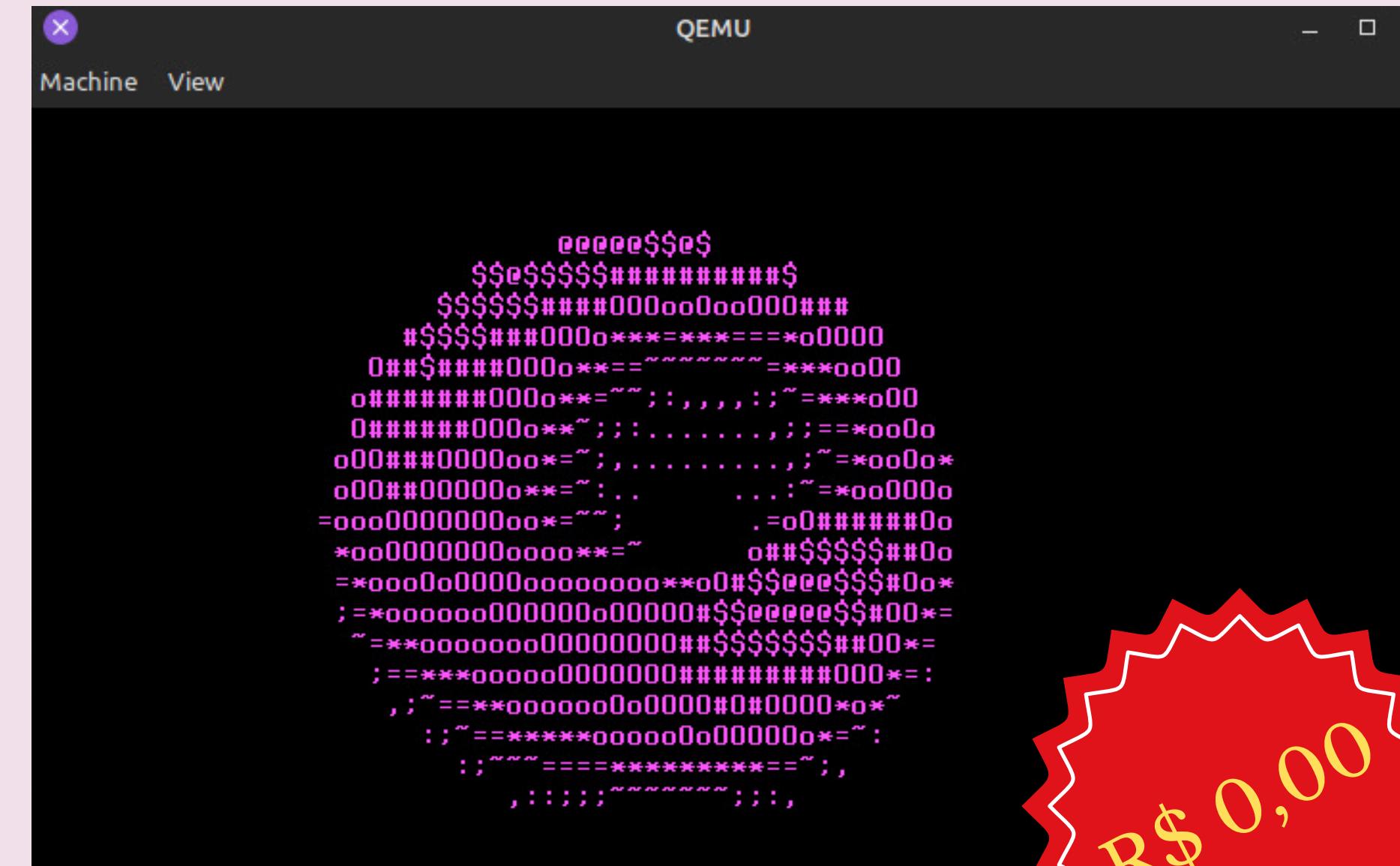




SEUS PROBLEMAS ACABARAM!!!

- DONUT EM QUALQUER LUGAR
 - DONUT A QUALQUER HORA
 - DONUT DE TODAS AS CORES
 - LEVE, **DOCINHO** E DIVERTIDO

IF (FELICIDADE.EXISTS()) ? USE DONUT OS



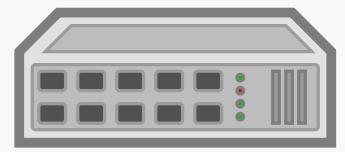
R\$ 0,00



<https://github.com/Bernardo46-2/DonutOS>



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PACOTES E
PLACA DE REDE



PROCESSOS E
ESCALONAMENTO



FERRAMENTA
EDUCACIONAL

ESSE DONUT
TEM ALGO
DIFERENTE
SNOOP...





```
QEMU  
Machine View  
ETHERNET HEADER  
SOURCE MAC: 06:77:61:08:f1:97  
DESTINATION MAC: 01:00:5e:00:00:fb  
  
NETWORK PROTOCOL: IPv4  
VERSION: 4  
HEADER LENGTH: 5  
TYPE OF SERVICE: 0  
TOTAL LENGTH: 168  
IDENTIFICATION: 3220  
FLAGS FRAGMENT 0  
TTL: 255  
PROTOCOL: 17  
HEADER CHECKSUM: Number of packets: 30  
SOURCE IP: 10.0.0.1 Selected index: 9  
DEST IP: 224.0.0.1 IPv6 Source IP: fe80:0000:0000:0000:0477:61ff:fe08:f197  
PROTOCOL: UDP Dest IP: ff02:0000:0000:0000:0000:0000:0002  
SOURCE PORT: 535 IPv6 Source IP: fe80:0000:0000:0000:0477:61ff:fe08:f197  
DEST PORT: 5353 Dest IP: ff02:0000:0000:0000:0000:0000:0016  
LENGTH: 148 IPv6 Source IP: fe80:0000:0000:0000:0477:61ff:fe08:f197  
CHECKSUM: 58155 Dest IP: ff02:0000:0000:0000:0000:0000:00fb  
IPv6 Source IP: fe80:0000:0000:0000:0477:61ff:fe08:f197  
Dest IP: ff02:0000:0000:0000:0000:0000:0016  
IPv6 Source IP: fe80:0000:0000:0000:0477:61ff:fe08:f197  
Dest IP: ff02:0000:0000:0000:0000:0000:00fb  
IPv4 Source IP: 10.0.0.2  
Dest IP: 224.0.0.251  
IPv4 Source IP: 10.0.0.2  
Dest IP: 224.0.0.251  
IPv6 Source IP: fe80:0000:0000:0000:0477:61ff:fe08:f197  
Dest IP: ff02:0000:0000:0000:0000:0000:00fb  
IPv4 Source IP: 10.0.0.2  
Dest IP: 224.0.0.251  
IPv6 Source IP: fe80:0000:0000:0000:0477:61ff:fe08:f197  
Dest IP: ff02:0000:0000:0000:0000:0000:0016  
IPv6 Source IP: fe80:0000:0000:0000:0477:61ff:fe08:f197  
Dest IP: ff02:0000:0000:0000:0000:0000:00fb
```

PACOTES E PLACA DE REDE

- **RTL8139**
- **donut sniffer**
- **recebimento de pacotes de rede em tempo real**



The image shows two terminal windows titled "QEMU".

The top window displays a memory dump starting with:

```
>paging
User pages allocated:
=====
Page 800: 0x00320000
Page 801: 0x00321000
Page 802: 0x00322000
Page 803: 0x00323000
Page 804: 0x00324000
Page 805: 0x00325000
Page 806: 0x00326000
Page 807: 0x00327000
Page 808: 0x00328000
Page 809: 0x00329000
```

The bottom window displays a timer log starting with:

```
Machine View
>
x = 1150000000 timer = 95121
y = 3144967296 timer = 95135
=====
x = 1200000000 timer = 95612
y = 3094967296 timer = 95626
>
x = 1250000000 timer = 96113
y = 3044967296 timer = 96118
y = 2994967296 timer = 96585
x = 1300000000 timer = 96603
x = 1350000000 timer = 97072
y = 2944967296 timer = 97077
x = 1400000000 timer = 97565
y = 2894967296 timer = 97570
y = 2844967296 timer = 98037
x = 1450000000 timer = 98055
x = 1500000000 timer = 98525
y = 2794967296 timer = 98533
x = 1550000000 timer = 99021
y = 2744967296 timer = 99029
x = 1600000000 timer = 99512
y = 2694967296 timer = 99521
x = 1650000000 timer = 100039
y = 2644967296 timer = 100046
x = 1700000000 timer = 100529
y = 2594967296 timer = 100542
```

ESCALONAMENTO

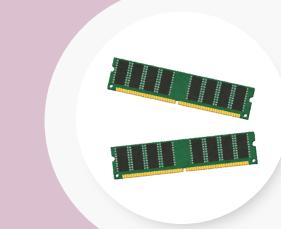
- incríveis 127 mb dedicados para processos de usuário
- escalonamento de processos Round-Robin



ENSINE CONCEITOS FUNDAMENTAIS DE SISTEMAS OPERACIONAIS COM O DONUT OS



Código amigável



Gestão de Memória



Camadas de rede



Donut OS

**Para você que deseja ter
uma vida mais saborosa**