# UNIVERSIDAD AUTÓNOMA "TOMAS FRÍAS"
## CARRERA DE INGENIERÍA DE SISTEMAS

| Materia: | Arquitectura de computadoras (SIS-522) | |
|---|---|---|
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| Grupo: | 1 | Sede | Potosí | |
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13. $R = n = 128 \Rightarrow 2^{128} = 340\,282\,366\,920\,938\,463\,463\,374\,607\,431\,768\,211\,456$ localidades de memoria

14. $R = n = 256$

$\Rightarrow 2^{256} = 115\,792\,089\,237\,316\,195\,423\,570\,985\,008\,687\,907\,853\,269\,984\,665\,640\,564\,039\,457\,584\,007\,913\,129\,639\,936$ localidades de memoria

15. $R = n = 512 \Rightarrow 2^{512} = 13\,407\,807\,929\,942\,597\,099\,574\,024\,998\,205\,846\,127\,479\,365\,820\,592\,393\,377\,723\,561\,443\,721\,764\,030\,073\,546\,976\,801\,874\,298\,166\,903\,427\,690\,031\,858\,186\,486\,050\,853\,753\,882\,811\,946\,569\,946\,433\,649\,006\,084\,096$ localidades de memoria

1. R = 6M = 6 · 1024 · 1024 = 6291456

6M x 8 = 6291456 x 8 = 50 331 648 bits

2. R = 10G = 10 · 1024 · 1024 · 1024 = 10737418240

10G x 16 = 171798691840 bits

3. R = 20T = 20 · 1024 · 1024 · 1024 · 1024 = 21990232555520

20T x 32 = 703687441776640 bits

4. R = 128K = 128 · 1024 = 131072

128K x 4 = 524288 bits

5. R = 1M = 1 · 1024 · 1024 = 1048576

1M x 16 = 16777216 bits

6. R = 5G = 5 · 1024 · 1024 · 1024 = 5368709120

5G x 64 = 343597383680 bits

7. R = 30T = 32985348833280

30T x 8 = 263882790666240 bits

8. R = 256M = 256 · 1024 · 1024 = 268435456

256M x 32 = 8589934592 bits

9. R = 2k = 2 · 1024 = 2048

2K x 128 = 262144 bits

10. R = 15G = 15 · 1024 · 1024 · 1024 = 16106127360

15G x 16 = 257698037760 bits

11. R = n = 32 => 2^{32} = 4294967296 Localidades de memoria

12. R = n = 64 => 2^{64} = 18446744073709551616 localidades de memoria