Processadores AMD

Igor Amaral – 15.00588-7

Rodrigo Franciozi – 14.04014-0

Yuri Bunduki – 12.01595-4

# 🡪AMD Ryzen(AMD Ryzen™ 7 1700): 8 núcleos, 16 threads, 3.7GHz clock, 14nm CMOS, 64 bits

# Instructions:

# ISA: x86-16, x86-32, x86-64

# Extensions: MOVBE, MMX, SSE, SSE2, SSE3, SSSE3, SSE4.1, SSE4.2, POPCNT, AVX, AVX2, AES, PCLMUL, RDRND, F16C, BMI, BMI2, RDSEED, ADCX, PREFETCHW, CLFLUSHOPT, XSAVE, SHA, CLZERO

# Cache:

# L1I Cache 64 KiB/core

# 4-way set associative

# L1D Cache 32 KiB/core

# 8-way set associative

# L2 Cache 512 KiB/core

# 8-way set associative

# L3 Cache 2 MiB/core

# 16-way set associative

# 🡪Intel Kaby Lake(Core i7 7740X): 4 núcleos, 8 threads, 4.5GHz clock, 14nm CMOS, 64 bits

# Instructions

# ISA x86-16, x86-32, x86-64

# Extensions MOVBE, MMX, SSE, SSE2, SSE3, SSSE3, SSE4.1, SSE4.2, POPCNT, AVX, AVX2, AES, PCLMUL, FSGSBASE, RDRND, FMA3, F16C, BMI, BMI2, VT-x, VT-d, TXT, TSX, RDSEED, ADCX, PREFETCHW, CLFLUSHOPT, XSAVE, SGX, MPX

# Cache

# L1I Cache 32 KiB/core

# 8-way set associative

# L1D Cache 32 KiB/core

# 8-way set associative

# L2 Cache 256 KiB/core

# 4-way set associative

# L3 Cache 2 MiB/core

# Up to 16-way set associative

# Size Cache 128 MiB/package

# on Iris Pro GPUs only

🡪AMD Excavator(Athlon X4 860K): 4 núcleos, 4 threads, 3.7GHz clock, 28nm CMOS, 64 bits

🡪Intel Haswell(Core i7 5920K): 6 núcleos, 12 threads, 3.7GHz clock, 22nm CMOS, 64bits

🡪AMD Bulldozer(AMD FX-8150): 8 núcleos, 8 threads, 4.2GHz, 32nm CMOS, 64 bits

🡪Intel Sandy Bridge(Core i7 3960X): 6 núcleos, 12 threads, 3.9GHz, 32nm CMOS, 64 bits