

Feature	Multicore with SIMD	GPU
SIMD processors	8 to 32	15 to 128
SIMD lanes/processor	2 to 4	8 to 16
Multithreading hardware support for SIMD threads	2 to 4	16 to 32
Largest cache size	48 MiB	6 MiB
Size of memory address	64-bit	64-bit
Size of main memory	64 GiB to 1024 GiB	4 GiB to 16 GiB
Memory protection at level of page	Yes	Yes
Demand paging	Yes	No
Cache coherent	Yes	No

**FIGURE 6.11** Similarities and differences between multicore with Multimedia SIMD extensions and recent GPUs.