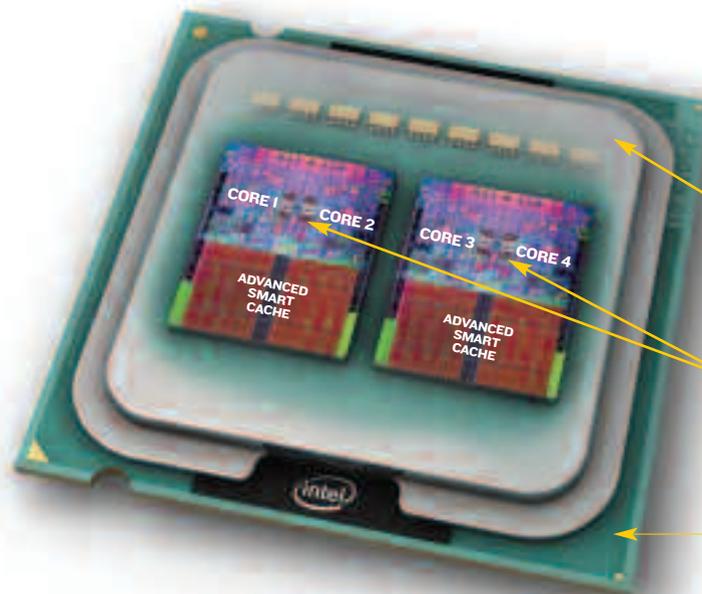


What makes it so fast?



The design of multicore processors, such as the Intel Core 2 Quad, lets them work faster and cooler.

INTEGRATED HEAT SPREADER

The integrated metal heat spreader spreads heat from the silicon chips and protects them. The IHS acts as a contact for the heat sink and provides more surface area, leading to better cooling.

SILICON CHIPS (DIES)

The two dies inside the Intel Core 2 Extreme quad-core processor are 143mm² in size and utilize 291 transistors each. The advanced smart caches have 4M capacity each.

SUBSTRATE

The dies are mounted directly to the substrate, which facilitates contact to the motherboard and chipset of the PC via 775 contacts and electrical connections.

SOURCE: INTEL