

HOW IDT WinChip WORKS.

If you want to move fast, travel light.

The new IDT WinChip processor fulfilled its promise: superior Windows performance at a price that provides exceptional value in low-cost desktop and mobile computers. The achievement was recognized at Computex '97, where the IDT WinChip received the Best of Byte Award for microprocessor development.



How do you run Windows software very fast without running up complexity and cost?

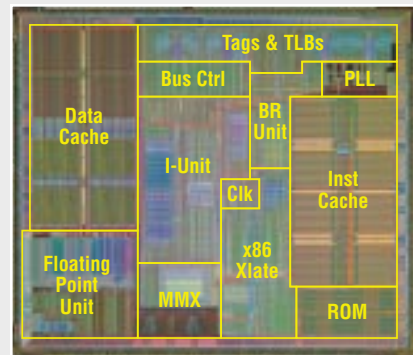
The IDT development team returned to the proven principles of Reduced Instruction Set Computing (RISC). They optimized the IDT WinChip architecture for ultra-fast execution of the x86 instructions most used by Windows software. They eliminated complex structures and processes not needed in desktops or laptops. They kept it simple.

Here are the key concepts:

SIMPLIFIED INSTRUCTION SET. The IDT WinChip optimizes performance of the basic x86 instructions which comprise 90% of all x86 code, while little-used instructions are implemented in microcode which requires minimal hardware support. Result: very fast execution with far less circuitry.

HIGHER CLOCK FREQUENCIES. The IDT WinChip optimizes total system performance by optimizing for highest clock frequency.

MASSIVE ON-CHIP CACHE. The IDT WinChip architecture makes maximum use of cache memory, the simplest and most efficient way to achieve faster processing at high clock speeds. The IDT WinChip provides *twice* the amount of on-chip Level 1 cache as the Intel Pentium® with MMX™ Technology.



OPTIMIZATION OF x86 ARCHITECTURE. The IDT WinChip is fully compatible with, and optimized for, x86 architecture in industry-standard Socket 7, enabling direct installation in existing designs and future upgrades.

OPTIMIZATION FOR MANUFACTURING. The simplified architecture of the IDT WinChip reduces die size and increases the manufacturability of the microprocessor for significant reduction in cost.

