

Intel Core 2 Duo E6600 specifications

General information

Type	CPU / Microprocessor
Market segment	Desktop
Family	Intel Core 2 Duo
Model number ?	E6600
CPU part numbers	HH80557PH0564M is an OEM/tray microprocessor BX80557E6600 is a boxed microprocessor with fan and heatsink
Frequency ?	2400 MHz
Bus speed ?	1066 MHz
Clock multiplier ?	9
Package	775-land Flip-Chip Land Grid Array (FC-LGA6) 1.48" x 1.48" (3.75 cm x 3.75 cm)
Socket	Socket 775 / LGA775 / T
Introduction date	Jul 27, 2006
Price at introduction	\$316

S-spec numbers

Part number	ES/QS processors				Production processors	
	QJNC	QLLR	QPGE	QTOA	SL9S8	SL9ZL
BX80557E6600					+	+
HH80557PH0564M	+	+	+	+	+	+

Architecture / Microarchitecture

Microarchitecture	Core
Processor core ?	Conroe
Core steppings ?	B0 (QLLR) B1 (QPGE) B2 (QTOA, SL9S8, SL9ZL)
CPUIDs	6F5 (QPGE) 6F6 (QTOA, SL9S8, SL9ZL)
Manufacturing process	0.065 micron
Data width	64 bit
The number of cores	2
The number of threads	2
Floating Point Unit	Integrated
Level 1 cache size ?	2 x 32 KB 8-way set associative instruction caches 2 x 32 KB 8-way set associative data caches
Level 2 cache size ?	shared 4 MB 16-way set associative cache
Cache latency	3 (L1 cache) 14 (L2 cache)
Multiprocessing	Uniprocessor
Features	<ul style="list-style-type: none">▪ MMX instructions▪ SSE / Streaming SIMD Extensions▪ SSE2 / Streaming SIMD Extensions 2▪ SSE3 / Streaming SIMD Extensions 3▪ SSSE3 / Supplemental Streaming SIMD Extensions 3

- EM64T / Extended Memory 64 technology / Intel 64 ?
 - VT / Virtualization technology ?
 - NX / XD / Execute disable bit ?
- Low power features
- Enhanced SpeedStep technology ?
 - Stop Grant state ?
 - Halt state
 - Extended Halt state

Integrated peripherals / components

Integrated graphics None

Electrical / Thermal parameters

V core ? 0.85V - 1.5V

Minimum/Maximum operating
temperature ? 5°C - 60.1°C

Minimum/Maximum power
dissipation ? 12 Watt (Extended Halt mode) / 105.15 Watt

Thermal Design Power ? 65 Watt

Notes on Intel Core 2 Duo E6600

- Binary compatible with 32-bit x86 software
- Bus frequency is 266 MHz. Because the processor uses Quad Data Rate bus the effective bus speed is 1066 MHz