OverDrive Processors

Intel® makes upgradability available, quickly and easily, through a category of powerful processors: OverDrive™ Processors. With a single chip, Intel OverDrive Processors allow upgrades to systems based on the next generation of microprocessor technology with performance gains from 30% to 70%.

OverDrive processors are for the retail, end user market. The single chip is placed in an open socket on the planar or in a ZIF or LIF socket after the existing processor is removed.

If PC has...	such as in IBM®...	in a...socket...	you can install an OverDrive...	to upgrade from...	to ...
486SX or 486DX		168 pin	486SX2 or 486DX2 [1]	20, 25, or 66 MHz	40, 50, or 66 MHz
486SX or 486DX	ValuePoint Si (486SX models)	169 pin	486SX2 or 486DX2 [1]	20, 25, or 33 MHz	40, 50, or 66 MHz
486SX, 486DX, 486SX2, or 486DX2 (5 volt)	ValuePoint Spring 93 ValuePoint Fall 93 ValuePoint Si (DX/DX2 models) Model 85 433, 466	238 pin	486SX2, 486DX2 [1] or P24T	20, 25, 33, 50 or 66 MHz	40, 50, or 66 MHz
486SX, 486SX2, 486DX, 486DX2 (5 volt)	ValuePoint Performance Series PC Server PS/2 76/77 i/s	237 pin	486SX2, 486DX2 [1] or P24T	20, 25, 33, 50 or 66 MHz	40, 50, or 66 MHz
DX4 (3.3 volt)	ValuePoint Performance Series PS/2 76/77 i/s (DX4 models)	237 pin	P24CT (1996)	75 or 100 MHz	Not yet determined
DX4 (3.3 volt)		235 pin	P24CT (1996)	75 or 100 MHz	Not yet determined
Pentium ™ (5 volt P5, 60 or 66 MHz)	ValuePoint P60/D PC Server	273 pin	P5T (1996)	60 or 66 MHz	Not yet determined
Pentium (3.3 volt P54C, 90/60 or 100/66 MHz)		320 pin	P54CT uniprocessor (1996) P54CM multiprocessing [2] (1995)	90 or 100 MHz	Not yet determined

[1] A DX4 OverDrive chip is expected to ship in the third quarter of 1994; [2] Available only from hardware vendor (not for end user retail)

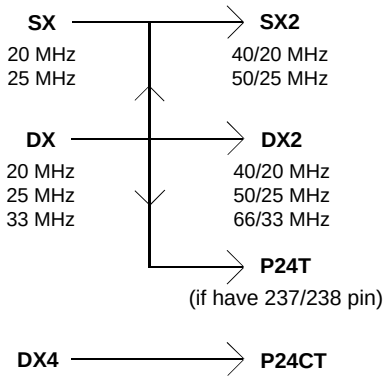
P24T

- Code name for processor that is a subset of Pentium
- Officially called Intel Pentium OverDrive
- Internally will be similar to Pentium, but will have a 32 bit external bus (while Pentium has 64 bit external bus)
- Expected in late 1994
- 237 pin and 238 pin versions
- 237 pin versions will always have a fan on top
- 238 pin versions will have either a fan or a heat sink on top
- P24T is a 5.0 volt processor so must have a 5.0 volt power supply (technically it uses 3.3 volt silicon with a built in voltage regulator)
- Used to upgrade from 486 systems

P24CT

- Code name for processor that is a subset of Pentium
- Officially called Intel Pentium OverDrive
- Internally will be similar to Pentium, but will have a 32 bit external bus (while Pentium has 64 bit external bus)
- Expected in 1996
- 235 pin and 237 pin versions
- P24CT is a 3.3 volt processor and requires a 3.3 volt planar or a 5.0 volt planar with a voltage regulator
- Used to upgrade DX4 systems
- Compared to DX4, integer performance is 50% faster and floating point is 150% faster

486 OVERVIEW



INTEL SOCKETS

Socket 1	169 pin	5.0 volt
Socket 2	238 pin	5.0 volt
Socket 3	237 pin	3.3 or 5.0 volt
Socket 4	273 pin	5.0 volt
Socket 5	320 pin	3.3 volt
Socket 6	235 pin	3.3 volt

(OVER) Compiled by Roger Dodson, IBM. June 1994