Processor Performance

The following comparisons are processor intensive comparisons; application throughput (which utilizes all subsystems) will have less of a difference.

The **80386 SLC** at **25 MHz** is (325T):
- ☞ Equivalent to a 33 MHz 386 DX

The **80486 SLC2** at **40/20 MHz** is (Upgrade for 56/57 SX & 56/57 SLC):
- ☞ Up to 3.71 times faster than a 20 MHz 386 SX with no memory cache
- ☞ Up to 99% faster than a 20 MHz 386 SLC (Model 56 SLC & 57 SLC)
- ☞ Equivalent to a 25 MHz 486 SX

The **80486 SLC2** at **50/25 MHz** is (9556/9557 SLC2):
- ☞ Equivalent to a 33 MHz 486 SX

The **80486 SLC3** at **60/20 MHz** is:
- ☞ Up to 4.24 times faster than a 20 MHz 386 SX with no memory cache
- ☞ Up to 187% faster than a 20 MHz 386 SLC

The **80486 SLC3** at **75/25 MHz** is:
- ☞ Up to 32% faster than a 486 SX at 33 MHz
- ☞ Up to 40% faster than a 486 SLC2 at 50/25 MHz
- ☞ Up to 113% faster than a 486 SX at 25 MHz

The **80486 DX2** at **50/25 MHz** is:
- ☞ Up to 70% faster than a 486 SX/DX at 25 MHz
- ☞ Up to 20% faster than a 486 DX at 33 MHz

The **80486 DX2** at **66/33 MHz** is:
- ☞ Up to 70% faster than a 486 SX/DX at 33 MHz
- ☞ Up to 20% faster than a 486 DX at 50 MHz

The **Blue Lightning**™ at **50/25 MHz** is:
- ☞ 7% faster than a 486 DX2 at 50/25 (integer performance)
- ☞ 2% faster than a 486 DX2 at 50/25 (92% integer, 8% floating pt)

The **Blue Lightning** at **66/33 MHz** is:
- ☞ 5% slower than a 486 DX2 at 66/33 (integer performance)
- ☞ 9% slower than a 486 DX2 at 66/33 (92% integer, 8% floating pt)

The **Blue Lightning** at **75/25 MHz** is:
- ☞ 33% faster than a 486 DX2 at 66/33 (integer performance)
- ☞ 26% faster than a 486 DX2 at 66/33 (92% integer, 8% floating pt)

The **IntelDX4**™ at **75/25 MHz** is:
- ☞ 50% faster than a 486 DX2 at 50/25 MHz

The **IntelDX4** at **100 MHz** is:
- ☞ 50% faster than a 486 DX2 at 66/33 MHz
- ☞ 200% faster (3 x faster) than a 486 SX at 33 MHz

The **Pentium**™ at **60 MHz** is:
- ☞ Up to twice as fast as a 486 DX2 at 66/33 MHz
- ☞ Floating point performance is up to five times faster than a 486 DX's math cop.

The **Pentium** at **90/60 MHz** is:
- ☞ 50% faster than a Pentium at 60 MHz
- ☞ Slightly faster than the PowerPC 601 at 80 MHz for integer performance
- ☞ Slower than the PowerPC 601 at 80 MHz for floating point performance

The **PowerPC 601**™ at **66 MHz** is:
- ☞ Falls between a 486 DX2 at 66/33 MHz and Pentium at 66 MHz processor for integer performance (SPECint92 for Pentium: 70; SPECint92 for PowerPC 601: 62)
- ☞ Faster than a Pentium processor for floating point performance (SPECfp92 for Pentium: 56.9; SPECfp92 for PowerPC 601: 72)

PROCESSOR SPEED
RANKED FROM LOW TO HIGH

Processor	MHz	BAPCo	Norton SI 6.0	Norton SI 7.0	iCOMP	SPEC int92	SPEC fp92
386SX	20	–	11.2	–	32	3.5	–
386SX	25	–	12.3	–	39	4.5	–
386SL	25	–	12.3	–	41	4.3	–
386DX	25	–	27.0	–	49	6.5	–
386SLC	20	–	29.4	–	–	6.2	–
386DX	33	–	36.0	–	68	8.4	–
386SLC	25	–	36.9	–	–	–	–
486SLC	25	–	37.1	–	–	–	–
486SX	25	–	54.1	–	100	14.2	–
486SL	25	–	54.1	–	–	–	–
486DX	25	–	54.1	–	122	14.2	–
486SLC2	40/20	–	57.3	–	–	–	–
486SX	33	–	71.9	–	136	18.5	–
486SL	33	–	71.9	–	166	–	–
486DX	33	142.3	71.9	71.8	166	18.5	–
486SX2	50/25	–	–	–	180	–	–
486DX2	40/20	–	–	–	182	20.4	–
486SLC2	50/25	–	74.1	–	–	–	–
Blue Lightning	50/25	160.4	–	74.4	–	–	–
486DX2	50/25	179.1	93.1	108.3	231	25.7	–
486DX	50	–	108.1	–	249	27.9	13
Blue Lightning	66/33	204.2	–	98.7	–	–	–
Blue Lightning	75/25	208.5	–	111.7	–	–	–
486DX2	66/33	223.5	122.1	143.6	297	32.4	18.6
DX4	75/25	–	–	–	319	–	–
PowerPC 601	50	–	–	–	–	40	60
DX4	100/33	245.5	–	–	435	51.4	26
Blue Lightning	100/33	259.2	–	148.1	–	–	–
PowerPC 603	66	–	–	–	–	60	70
PowerPC 601	66	–	–	–	–	62	72
Pentium	60	–	–	–	510	62.9	53
Pentium	66	–	210.0	–	567	70.0	58.6
PowerPC 603	80	–	–	–	–	75	85
PowerPC 601	80	–	–	–	–	77	93
Pentium	90/60	–	–	–	735	90.1	72.7
Pentium	100/66	–	–	–	815	100.0	80.6
PowerPC 601	100	–	–	–	–	105	125

BAPCo uses commonly available software applications.

Norton Utilities® System Information version 6.0 is CPU intensive without requiring math coprocesor.

Intel's iCOMP™ is made up of 16 bit integer (67%), 16 bit floating point (3%), 32-bit integer (25%), and 32 bit floating point (5%).

SPECint92 is a 32 bit industry standard CPU benchmark. Measurements made with L2 cache.

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(PERF) Compiled by Roger Dodson, IBM. April 1994