

Pyro Accelerator Performance Compared to NeXT Computers

	Pyro (68040 at 50MHz)	Standard NeXT (68040 at 25MHz)	Gain	Turbo NeXT (68040 at 33MHz)	Gain	Nitro NeXT (68040 at 40MHz)	Gain
Configuration	16 MB RAM Monochrome display	16 MB RAM Monochrome display	Pyro vs 25 Mhz	16 MB RAM Monochrome display	Pyro vs Turbo	16 MB RAM Color display	Pyro vs Nitro
NXBench V2.0 dhrystones/s	52631 dhrystones	25974 dhrystones	103%	34482 dhrystones	53%	41608 dhrystones	26%
NXBench V2.0 MIPS	33.42 MIPS	16.49 MIPS	103%	21.89 MIPS	53%	26.42 MIPS	26%
NXBench NXFactor 2.0	NXFactor 1.2494	NXFactor 1.0936	14%	NXFactor 1.5755	-21%	NXFactor 0.9060	38%
BYTE UNIX Bench- marks (Version 3.11)	1.7	1.0	70%	1.5	13%	1.6	6%
Next Mail: sort a 5000- item mailbox	10.97 sec	14.51 sec	32%	10.56 sec	-4%	7.98 sec	-27%
Mandelbrot.app	44.54 sec	88.07 sec	98%	64.99 sec	46%	52.54 sec	18%
FrameMaker: "replace all"	33.86 sec	50.42 sec	49%	36.93 sec	9%	30.16 sec	-11%
WetPaint: "Matrix-Smooth 5x5"	10.91 sec	18.81 sec	72%	14.44 sec	32%	12.01 sec	10%
Virtuoso: "Radial Fill"	14.98 sec	24.16 sec	61%	17.30 sec	15%	15.31 sec	2%
Rendering (prman)	65.2 (real)	103.8 (real)	59%	76.5 (real)	17%	60.6 (real)	-7%
JPEG conversion (cjpeg)	5.8 (real)	10.9 (real)	88%	8.3 (real)	43%	6.6 (real)	14%
Average Gain in Real-world Processor Performance			66%		23%		0%
Compiling (without -pipe flag to cc)	495.9 (real)	597.1 (real)	20%	435.7 (real)	-12%	367.4 (real)	-26%
Average Gain in Disk- intensive Performance			20%		-12%		-26%

Tests conducted and table prepared 9/26/94 by Daniel Miles Kehoe (kehoe@fortuity.sf.ca.us) of Fortuity Consulting, independent consultant to Spherical Solutions.