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PowerPC: SPEC ratings for 601, 601+, and 602 (10/96)

Article Created: 19 July 1995

Article Reviewed/Updated: 23 October 1996

TOPIC -----

This article contains the SPEC ratings for the PowerPC 601, 601+, and 602 chips used in Power Macintosh computers. MIPS (Millions of Instructions Per Second) ratings are not provided for PowerPC chips.

Note: This information comes from Motorola and IBM. For additional information, contact Motorola or IBM's web sites at:

Motorola: <http://www.mot.com/SPS/PowerPC/>

IBM: <http://www.chips.ibm.com/products/ppc/index.html>

For additional information about SPEC ratings, contact <http://www.specbench.org/>.

DISCUSSION -----

PowerPC Chip:	601	601+	602
Technology:	0.6 micron CMOS	0.5 micron CMOS process	0.5 micron CMOS process
Die Size:	10.95mm x 10.95mm	8.6mm x 8.6mm (74mm ²)	7.04mm x 7.04mm (50mm ²)
Transistors:	2.8 mil - 1 mil for logic	2.8 mil - 1 mil for logic	1 million
Cache:	32K Unified	32K Unified	
Temp. Range:	0°C to 85°C	0°C to 85°C	0°C to 105°C
Performance:	60+ SPECint92 @ 66MHz	105 SPECint92 @ 100MHz (est.)	40 SPECint92 @ 66MHz
	80+ SPECfp92 @ 66MHz	125 SPECfp92 @ 100MHz (est.)	
	85 SPECint92 @ 80MHz		

105 SPECfp92
@ 80MHz

Signal I/Os:	184	184	98
Power Supply:	3.6V ±5%	5.0V±5% & 2.5V±.2V or 3.3V±5% & 2.5V±.2V	3.3V±0.3V
Power			
Dissipation:	5.6W @ 50MHz 7.0W @ 66MHz 8.0W @ 80MHz	4W @ 100MHz	<1200mW @ 66MHz, 3.3V
Packaging:	Ceramic quad flat pack (304 pins)	Ceramic quad flat pack (304 pins)	Plastic quad flat pack (144 pins)

Article Change History:
23 Oct 1996 - Added URLs.

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Keywords: kppc

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19961023 16:31:12.00

Tech Info Library Article Number: 18203