

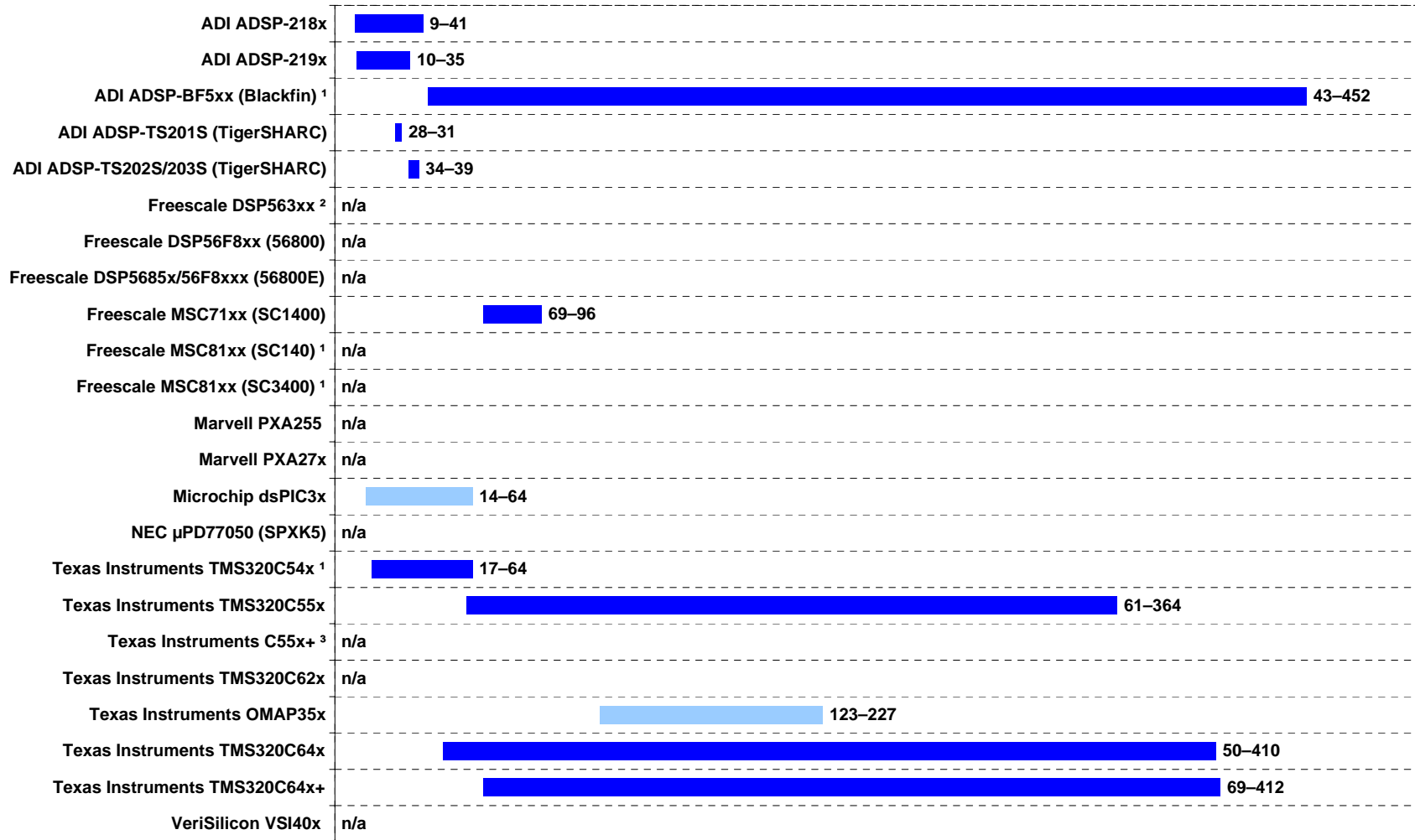
Speed per Dollar Ratios for Fixed-Point Packaged Processors

Updated April 2009

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See page 2 for details.



¹ For one core

² Benchmarked with 24-bit fixed-point data; all other processors benchmarked with 16-bit fixed-point data

³ The C55x+ is only available in custom wireless handset products

BDTIsimMark2000™ scores may be based on projected clock speeds. For information, see www.BDTI.com/benchmarks.html

■ BDTI_{mark}2000™/\$
 ■ BDTI_{sim}Mark2000™/\$

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Processor Family	Clock Rate (min-max)	BDTImark2000™, BDTIsimMark2000™ (min-max)	Cost (min-max)	BDTImark2000™/\$, BDTIsimMark2000™/\$ (min-max)
ADI ADSP-218x	80 MHz	240	\$6–27	9–41
ADI ADSP-219x	100–160 MHz	250–410	\$12–30	10–35
ADI ADSP-BF5xx (Blackfin) ¹	200–750 MHz	1120–4190	\$5–32	43–452
ADI ADSP-TS201S (TigerSHARC)	500–600 MHz	5330–6400	\$188–207	28–31
ADI ADSP-TS202S/203S (TigerSHARC)	500 MHz	5130	\$131–149	34–39
Freescale DSP563xx ²	80–275 MHz	240–820	n/a	n/a
Freescale DSP56F8xx (56800)	60–80 MHz	80–110	n/a	n/a
<i>Freescale DSP5685x/56F8xxx (56800E)</i>	32–120 MHz	<i>90–340</i>	n/a	<i>n/a</i>
Freescale MSC71xx (SC1400)	200–300 MHz	2240–3370	\$32–38	69–96
Freescale MSC81xx (SC140) ¹	200–500 MHz	2240–5610	\$55–122	n/a
Freescale MSC81xx (SC3400) ¹	800–1000 MHz	9520–11900	\$123–156	n/a
Marvell PXA255	200–400 MHz	470–930	n/a	n/a
Marvell PXA27x	312–624 MHz	1070–2140	n/a	n/a
Microchip dsPIC3x	30–40 MHz	<i>90–130</i>	\$2–7	14–64
NEC μ PD77050 (SPXK5)	250 MHz	<i>1770</i>	n/a	n/a
Texas Instruments TMS320C54x ¹	50–160 MHz	150–500	\$3–24	17–64
Texas Instruments TMS320C55x	108–300 MHz	520–1460	\$4–15	61–364
<i>Texas Instruments C55x+ ³</i>	400–500 MHz	<i>2530–3160</i>	n/a	<i>n/a</i>
Texas Instruments TMS320C62x	150–300 MHz	960–1920	n/a	n/a
<i>Texas Instruments OMAP35x</i>	600 MHz	<i>4540</i>	\$20–37	<i>123–227</i>
Texas Instruments TMS320C64x	400–1000 MHz	3650–9130	\$9–182	50–410
Texas Instruments TMS320C64x+	300–1200 MHz	3290–13170	\$10–191	69–412
VeriSilicon VSI40x	120–200 MHz	560–940	n/a	n/a

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BDTImark2000™, BDTIsimMark2000™: The BDTImark2000™ and BDTIsimMark2000™ provide a summary measure of signal processing speed. BDTIsimMark2000™ scores may be based on projected clock speeds. For information see www.bdti.com/benchmarks.html

Note: In general, BDTImark2000™/\$ and BDTIsimMark2000™/\$ scores cannot be computed from the speed and pricing data presented here. For example, the fastest processors are not always the most expensive processors. Therefore, it is not always possible to calculate a speed per dollar ratio by dividing the maximum speed for a family by the maximum price for the family.