

## Microprocessor Quick Reference Guide

Learn all the significant processor evolution facts, including introduction date, ratings and number of transistors. Click on the processor family below to view facts on each processor in that family, or scroll down the page to see them all. For an informative overview of Intel processor history, view "[The Evolution of a Revolution](#)." (PDF 2.9MB - this file is for historical reference only and is not kept updated beyond 2008)

**This page is for historical reference only. For products introduced after December 2008, please refer to [ark.intel.com](http://ark.intel.com).**

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### Intel® Atom™ Processor

Processor	Clock Speed(s)	Intro Date (s)	Mfg. Process	Transistors	Cache	Addressable Memory	Bus Speed	Typical Use

<a href="#">Intel® Atom™ Processor Z500</a>	800 MHz	Apr-08	45nm	47 million	512 kB L2	4 GB	400MT/s	MID
<a href="#">Intel® Atom™ Processor Z510</a>	1.10 GHz	Apr-08	45nm	47 million	512 kB L2	4 GB	400MT/s	MID
<a href="#">Intel® Atom™ Processor Z520</a>	1.33 GHz	Apr-08	45nm	47 million	512 kB L2	4 GB	533MT/s	MID
<a href="#">Intel® Atom™ Processor Z530</a>	1.60 GHz	Apr-08	45nm	47 million	512 kB L2	4 GB	533MT/s	MID
<a href="#">Intel® Atom™ Processor Z540</a>	1.86 GHz	Apr-08	45nm	47 million	512 kB L2	4 GB	533MT/s	MID
<a href="#">Intel® Atom™ Processor N270</a>	1.60 GHz	Jun-08	45nm	47 million	512 kB L2	4 GB	533 MHz	MID
<a href="#">Intel® Atom™ Processor 230</a>	1.60 GHz	Jun-08	45nm	47 million	512 kB L2	4 GB	533 MHz	MID

\*Chipset may limit actual physical memory supported by platform

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## Intel® Core™2 Processor

Processor	Clock Speed(s)	Intro Date(s)	Mfg. Process	Transistors	Addressable Memory	Cache	Bus Speed	Typical Use
<a href="#">Intel® Core™2 Extreme Q9000</a>	2 GHz	Dec-08	45nm	410 million	64 GB	6 MB	1066 MHz	Enthusiast Notebook
<a href="#">Intel® Core™2 Duo processor T9800</a>	2.93 GHz	Dec-08	45nm	410 million	64 GB	6 MB	1066 MHz	Mobile PC
<a href="#">Intel® Core™2 Duo processor P9600</a>	2.66 GHz	Dec-08	45nm	410 million	64 GB	6 MB	1066 MHz	Mobile PC
<a href="#">Intel® Core™2 Duo processor P9550</a>	2.66 GHz	Dec-08	45nm	410 million	64 GB	6 MB	1066 MHz	Mobile PC

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<a href="#">Intel® Core™2 Duo processor P8700</a>	2.53 GHz	Dec-08	45nm	410 million	64 GB	6 MB	1066 MHz	Mobile PC
<a href="#">Intel® Core™2 Extreme QX9300</a>	2.53 GHz	Aug-08	45nm	820 million	64 GB	12 MB	1066 MHz	Enthusiast Notebook
<a href="#">Intel® Core™2 Quad Q9100</a>	2.26 GHz	Aug-08	45nm	820 million	64 GB	12 MB	1066 MHz	Mobile PC
<a href="#">Intel® Core™2 Duo processor SP9400</a>	2.40 GHz	Aug-08	45nm	410 million	64 GB	6 MB	1066 MHz	Mobile PC
<a href="#">Intel® Core™2 Duo processor SP9300</a>	2.26 GHz	Aug-08	45nm	410 million	64 GB	6 MB	1066 MHz	Mobile PC
<a href="#">Intel® Core™2 Duo processor SL9400</a>	1.86 GHz	Aug-08	45nm	410 million	64 GB	6 MB	1066 MHz	Mobile PC
<a href="#">Intel® Core™2 Duo processor SL9300</a>	1.60 GHz	Aug-08	45nm	410 million	64 GB	6 MB	1066 MHz	Mobile PC
<a href="#">Intel® Core™2 Duo processor SU9400</a>	1.40 GHz	Aug-08	45nm	228 million	64 GB	3 MB	800 MHz	Mobile PC
<a href="#">Intel® Core™2 Duo processor SU9300</a>	1.20 GHz	Aug-08	45nm	228 million	64 GB	3 MB	800 MHz	Mobile PC
<a href="#">Intel® Core™2 Solo SU 3300</a>	1.20 GHz	Aug-08	45nm	205 million	64 GB	3 MB	800 MHz	Mobile PC
<a href="#">Intel® Core™2 Extreme Processor QX9775</a>	3.20 GHz	Feb-08	45nm	820 million	64 GB	12 M L2	1600 MHz	Enthusiast Notebook
<a href="#">Intel® Core™2 Extreme Processor QX9770</a>	3.20 GHz	Dec-07	45nm	820 million	64 GB	12 M L2	1600 MHz	Enthusiast Notebook
<a href="#">Intel® Core™2 Extreme Processor X9100</a>	3.06 GHz	Jul-08	45nm	410 million	64 GB	6 M L2	1066 MHz	Enthusiast Notebook
<a href="#">Intel® Core™2 Duo Processor P9500</a>	2.53 GHz	Jul-08	45nm	410 million	64 GB	6 M L2	1066 MHz	Mobile PC
<a href="#">Intel® Core™2 Duo Processor P8600</a>	2.40 GHz	Jul-08	45nm	410 million	64 GB	3 M L2	1066 MHz	Mobile PC

<a href="#">Intel® Core™2 Duo Processor P8400</a>	2.26 GHz	Jul-08	45nm	410 million	64 GB	3 M L2	1066 MHz	Mobile PC
<a href="#">Intel® Core™2 Extreme Processor X9000</a>	2.80 GHz	Jan-08	45nm	410 million	64 GB	6 MB	800 MT/s	Enthusiast Notebook
<a href="#">Intel® Core™2 Duo Processor E8300</a>	2.83 GHz	Apr-08	45nm	410 million	64 GB	6 MB	1333 MT/s	Desktop PC
<a href="#">Intel® Core™2 Duo Processor E7200</a>	2.53 GHz	Apr-08	45nm	228 million	64 GB	3 MB	1066 MT/s	Desktop PC
<a href="#">Intel® Core™2 Duo Processor T9600</a>	2.80 GHz	Jul-08	45nm	410 million	64 GB	6 M L2	1066 MHz	Mobile PC
<a href="#">Intel® Core™2 Duo Processor T9500</a>	2.60 GHz	Jan-08	45nm	410 million	64 GB	6 MB	800 MT/s	Mobile PC
<a href="#">Intel® Core™2 Duo Processor T9400</a>	2.53 GHz	Jul-08	45nm	410 million	64 GB	6 M L2	1066 MHz	Mobile PC
<a href="#">Intel® Core™2 Duo Processor T9300</a>	2.50 GHz	Jan-08	45nm	410 million	64 GB	6 MB	800 MT/s	Mobile PC
<a href="#">Intel® Core™2 Duo Processor T8300</a>	2.40 GHz	Jan-08	45nm	410 million	64 GB	3 MB	800 MT/s	Mobile PC
<a href="#">Intel® Core™2 Duo Processor T8100</a>	2.10 GHz	Jan-08	45nm	410 million	64 GB	3 MB	800 MT/s	Mobile PC
<a href="#">Intel® Core™2 Duo Processor E8500</a>	3.16 GHz	Jan-08	45nm	410 million	64 GB	6 MB	1333 MT/s	Desktop PC
<a href="#">Intel® Core™2 Duo Processor E8400</a>	3 GHz	Jan-08	45nm	410 million	64 GB	6 MB	1333 MT/s	Desktop PC
<a href="#">Intel® Core™2 Duo Processor E8200</a>	2.66 GHz	Jan-08	45nm	410 million	64 GB	6 MB	1333 MT/s	Desktop PC
<a href="#">Intel® Core™2 Duo Processor E8190</a>	2.66 GHz	Jan-08	45nm	410 million	64 GB	6 MB	1333 MT/s	Desktop PC
<a href="#">Intel® Core™2 Quad Processor Q9550</a>	2.83 GHz	Jan-08	45nm	820 million	64 GB	12 MB	1333 MT/s	Desktop PC

<a href="#">Intel® Core™2 Quad Processor Q9450</a>	2.66 GHz	Jan-08	45nm	820 million	64 GB	12 MB	1333 MT/s	Desktop PC
<a href="#">Intel® Core™2 Quad Processor Q9300</a>	2.50 GHz	Jan-08	45nm	820 million	64 GB	6 MB	1333 MT/s	Desktop PC
<a href="#">Intel® Core™2 Extreme Processor QX9650</a>	3 GHz	Nov-07	45nm	820 million	64 GB	12 MB	1333 MHz	Enthusiast PC
<a href="#">Intel® Core™2 Extreme Processor QX6850</a>	3 GHz	Jul-07	65nm	582 million	64 GB	8 MB	1066-1333 MHz	Enthusiast PC
<a href="#">Intel® Core™2 Extreme Processor QX6800</a>	2.93 GHz	Apr-07	65nm	582 million	64 GB	8 MB	1066 MHz	Enthusiast PC
<a href="#">Intel® Core™2 Extreme Processor QX6700</a>	2.66 GHz	Nov-07	65nm	582 million	64 GB	8 MB	1066 MHz	Enthusiast PC
<a href="#">Intel® Core™2 Processor Q6700</a>	2.66 GHz	Jul-07	65nm	582 million	64 GB	8 MB	1066 MHz	Desktop PC
<a href="#">Intel® Core™2 Quad Processor Q6600</a>	2.40 GHz	Jan-07	65nm	582 million	64 GB	8 MB	1333 MHz	Desktop PC
<a href="#">Intel® Core™2 Extreme Processor X6800</a>	2.93 GHz	Jul-06	65nm	291 million	64 GB	4 MB	1066 MHz	Desktop PC
<a href="#">Intel® Core™2 Duo Processor E6850-6550</a>	2.33-3 GHz	Jul-07	65nm	291 million	64 GB	4 MB	1333 MHz	Desktop PC
<a href="#">Intel® Core™2 Duo Processor E6700-6600</a>	2.40-2.66 GHz	Jul-06	65nm	291 million	64 GB	4 MB	1066 MHz	Desktop PC
<a href="#">Intel® Core™2 Duo Processor E6400-6300</a>	1.8-2.13 GHz	Jul-06	65nm	167 million	64 GB	2 MB	1066 MHz	Desktop PC
<a href="#">Intel® Core™2 Duo Processor E4500</a>	2.20 GHz	Apr-07	65nm	167 million	64 GB	2 MB	800 MHz	Desktop PC
<a href="#">Intel® Core™2 Duo Processor E4400</a>	2 GHz	Apr-07	65nm	167 million	64 GB	2 MB	800 MHz	Desktop PC
<a href="#">Intel® Core™2 Duo Processor E4300</a>	1.80 GHz	Apr-07	65nm	167 million	64 GB	2 MB	800 MHz	Desktop PC

<a href="#">Mobile Intel® Core™2 Extreme Processor X7900</a>	2.80 GHz	Sep-07	65nm	291 million	64 GB	4 MB	800 MHz	Enthusiast Notebook
<a href="#">Mobile Intel® Core™2 Extreme Processor X7800</a>	2.60 GHz	Jul-07	65nm	291 million	64 GB	4 MB	800 MHz	Enthusiast Notebook
<a href="#">Mobile Intel® Core™2 Duo Processor T7800</a>	2.60 GHz	Sep-07	65nm	291 million	64 GB	4 MB	800 MHz	Mobile PC
<a href="#">Mobile Intel® Core™2 Duo Processor T7600/T7400/T7200</a>	2.33/2.16/2 GHz	Jul-07	65nm	291 million	64 GB	4 MB	667 MHz	Mobile PC
<a href="#">Mobile Intel® Core™2 Duo Processor T7700/T7500/T7300/T7100</a>	2.40/2.20/2/1.80 GHz	Jul-06	65nm	291 million	64 GB	4 MB	800 MHz	Mobile PC
<a href="#">Mobile Intel® Core™2 Duo Processor T5600-T5500</a>	1.83-1.66 GHz	Jul-06	65nm	167 million	64 GB	2 MB	667 MHz	Mobile PC
<a href="#">Mobile Intel® Core™2 Duo Processor L7400/L7200</a>	1.50 GHz/1.33 GHz	Jul-06	65nm	291 million	64 GB	4 MB	667 MHz	Mobile PC
<a href="#">Mobile Intel® Core™2 Duo Processor L7500/L7300</a>	1.60 GHz/1.40 GHz	Jul-06	65nm	291 million	64 GB	4 MB	800 MHz	Mobile PC
<a href="#">Mobile Intel® Core™2 Duo Processor U7700/U7500</a>	1.20/1.06 GHz	Jul-06	65nm	167 million	64 GB	2 MB	533 MHz	Mobile PC
<a href="#">Intel® Core™2 Solo ULV Processor U2200/U2100</a>	1.20/1.06 GHz	Jan-06	65nm	291 million	64 GB	1 MB	533 MHz	Mobile PC

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## Intel® Core™ Processor

Processor	Clock Speed(s)	Intro Date(s)	Mfg. Process	Transistors	Cache	Addressable Memory	Bus Speed	Typical Use

<a href="#">Intel® Core™ i7-965 Extreme Edition</a>	3.20 GHz	Nov-08	45nm	731 million	8 MB	64 GB		Desktop PC
<a href="#">Intel® Core™ i7-940</a>	2.93 GHz	Nov-08	45nm	731 million	8 MB	64 GB		Desktop PC
<a href="#">Intel® Core™ i7-920</a>	2.66 GHz	Nov-08	45nm	731 million	8 MB	64 GB		Desktop PC
<a href="#">Intel® Core™ Duo Processor T2700-2300</a>	2.33-1.66 GHz	Aug-06	65nm	152 million	2MB L2 Cache	2 GB	667 MHz	Mobile PC
<a href="#">Intel® Core™ Duo Processor T2300E</a>	1.66 GHz	May-06	65nm	152 million	2MB L2 Cache	2 GB	667 MHz	Mobile PC
<a href="#">Intel® Core™ Duo Processor T2450/2350/2250/2050</a>	2/1.86/1.73/1.60 GHz	Feb-06	65nm	152 million	2MB L2 Cache	2 GB	533 MHz	Mobile PC
<a href="#">Intel® Core™ Duo LV Processor L2500-L2300</a>	1.83-1.50 GHz	Aug-06	65nm	152 million	2 MB L2 Cache	2 GB	667 MHz	Mini/Thin and Light
<a href="#">Intel® Core™ Duo ULV Processor U2500-U2400</a>	1.20-1.06 GHz	Mar-06	65nm	152 million	2MB L2 Cache	2 GB	533 MHz	Mini/Thin and Light
<a href="#">Intel® Core™ Solo Processor T1350</a>	1.86 GHz	Jul-06	65nm	152 million	2MB L2 Cache	2 GB	533 MHz	Mobile PC
<a href="#">Intel® Core™ Solo Processor T1400/T1300</a>	1.83/1.66 GHz	Aug-06	65nm	152 million	2MB L2 Cache	2 GB	667 MHz	Mobile PC
<a href="#">Intel® Core™ Solo ULV Processor U1300</a>	1.06 GHz	Mar-06	65nm	152 million	2MB L2 Cache	2 GB	533 MHz	Mini/Thin and Light
<a href="#">Intel® Core™ Solo ULV Processor U1500/U1400</a>	1.33/1.20 GHz	Mar-06	65nm	151 million		2 GB	533 MHz	Mobile PC

					2MB L2 Cache			
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### Intel® Pentium® D Processor

Processor	Clock Speed(s)	Intro Date(s)	Mfg. Process	Transistors	Cache	Addressable Memory	Bus Speed	Typical Use
<a href="#">Intel® Pentium® D Processor 800</a>	3.20 - 2.80 GHz	May-05	90nm	230 million	1024 kB L2 Cache	64 GB	800 MHz	Desktop PC
<a href="#">Intel® Pentium® D Processor 900</a>	3.40 - 2.80 GHz	Jan-06	0.065 micron	376 million	2048 kB L2 Cache	64 GB	800 MHz	Desktop PC

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### Intel® Pentium® M Processor

Processor	Clock Speed(s)	Intro Date(s)	Mfg. Process	Transistors	Cache	Addressable Memory	Bus Speed	Core Voltage	Thermal Design Power (TDP)	Typical Use
<a href="#">Intel® Pentium® M Processor</a>	1.70 GHz - 900 MHz	Mar-03	130nm	77 million	1024 kB L2 Cache	4 GB	400 MHz			Mini-notebooks, sub-notebooks & tablet PCs
		May-04	90nm			4 GB				



<a href="#">Intel® Pentium® M Processor</a>	2.13-1 GHz			140 million	2048 kB L2 Cache		533 MHz 400 MHz			Full-size and thin & light Mobile PC
<a href="#">Intel® Pentium® M Processor 770</a> <a href="#">760</a> <a href="#">750</a> <a href="#">740</a> <a href="#">730</a>	2.13 GHz 2 GHz 1.86 GHz 1.73 GHz 1.60 GHz	Jan-05	90nm	140 million	2 MB L2 Cache		533 MHz	1.260-1.372 V Max Perf. Mode 0.988V Battery Optimized Mode	27 W	Full-size and thin & light Mobile PC
<a href="#">Intel® Pentium® M Processor 765</a> <a href="#">755</a> <a href="#">745</a> <a href="#">735</a> <a href="#">725</a> <a href="#">715</a>	2.10 GHz 2 GHz 1.80 GHz 1.70 GHz 1.60 GHz 1.50 GHz	May-04	90nm	140 million	2 MB L2 Cache		400 MHz	1.276-1.340V Max Perf. Mode 0.988V Battery Optimized Mode	21 W	Full-size and thin & light Mobile PC
<a href="#">Intel® Pentium® M Processor</a>	1.70 GHz 1.60 GHz 1.50 GHz 1.40 GHz 1.30 GHz	Mar-03	130nm	77 million	1 MB L2 Cache		400 MHz	1.484V in Max. Perf. Mode 0.956V Battery Optimized Mode (1.40-1.70 GHz)  1.39V in Max Perf. Mode 0.96V in Battery Optimized	24.5 W	Full-size and thin & light Mobile PC

								Mode (1.30 GHz)		
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<i>Low Voltage</i>								
Processor	Clock Speed(s)	Intro Date(s)	Mfg. Process/ Transistors	Cache	Bus Speed	Core Voltage	Thermal Design Power (TDP)	Typical Use
<a href="#">Intel® Pentium® M Processor 758 738</a>	1.50 GHz 1.40 GHz	July-04	90nm  140 million	2 MB L2 Cache	400 MHz	1.116V in Max. Perf. Mode  0.988V Battery Optimized Mode	10 W	Mini-notebooks, sub-notebooks & tablet PCs
<a href="#">Intel® Pentium® M Processor</a>	1.30 GHz	Apr-04	0.13-micron  77 million	1 MB L2 Cache	400 MHz	1.180V in Max. Perf. Mode  0.956V Battery Optimized Mode	12 W	Mini-notebooks, sub-notebooks & tablet PCs
<a href="#">Intel® Pentium® M Processor</a>	1.20 GHz 1.10 GHz	Mar-03	0.13-micron  77 million	1 MB L2 Cache	400 MHz	1.180V in Max. Perf. Mode  0.956V Battery Optimized Mode	12 W	Mini-notebooks, sub-notebooks & tablet PCs

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<i>Ultra Low Voltage</i>								
Processor		Intro Date(s)		Cache		Core Voltage		Typical Use

	Clock Speed(s)		Mfg. Process/ Transistors		Bus Speed		Thermal Design Power (TDP)	
<a href="#">Intel® Pentium® M Processor 753</a> <a href="#">733</a> <a href="#">723</a>	1.20 GHz 1.10 GHz 1 GHz	Jul-04	90nm  140 million	2MB L2 Cache	400 MHz	0.940V in Max. Perf. Mode 0.812V Battery Optimized Mode	5W	Mini-notebooks, sub-notebooks & tablet PCs
<a href="#">Intel® Pentium® M Processor</a>	1.10 GHz	Apr-04	0.13- micron  77 million	1 MB L2 Cache	400 MHz	1.004V in Max. Perf. Mode 0.844V in Battery Optimized Mode	7 W	Mini-notebooks, sub-notebooks & tablet PCs
<a href="#">Intel® Pentium® M Processor</a>	1 GHz 900 MHz	<u>Jun-03</u> 1 GHz  <u>Mar. 12, 2003</u> 900 MHz	0.13- micron  77 million	1 MB L2 Cache	400 MHz	1.00V in Max. Perf. Mode 0.85V in Battery Optimized Mode	7 W	Mini-notebooks, sub-notebooks & tablet PCs

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### Intel® Itanium® Processor Family

Processor	Clock Speed(s)	Intro Date (s)	Mfg. Process	Transistors	Cache	Addressable Memory	Bus Speed	Typical Use
<a href="#">Dual-core Intel® Itanium</a>	1.66 GHz	Oct-07	90nm	1.72 billion	24 MB	1024 GB	667 MHz	Demanding enterprise-class servers and high-

<a href="#">Processor 9150M</a>								performance applications
<a href="#">Dual-core Intel® Itanium Processor 9150N</a>	1.60 GHz	Oct-07	90nm	1.72 billion	24 MB	1024 GB	400/533 MHz	Demanding enterprise-class servers and high-performance applications
<a href="#">Dual-core Intel® Itanium Processor 9140M</a>	1.66 GHz	Oct-07	90nm	1.72 billion	18 GB	1024 GB	667 MHz	Demanding enterprise-class servers and high-performance applications
<a href="#">Dual-core Intel® Itanium Processor 9140N</a>	1.60 GHz	Oct-07	90nm	1.72 billion	18 GB	1024 GB	400/533 MHz	Demanding enterprise-class servers and high-performance applications
<a href="#">Dual-core Intel® Itanium Processor 9120N</a>	1.42 GHz	Oct-07	90nm	1.72 billion	12 GB	1024 GB	533 MHz	Demanding enterprise-class servers and high-performance applications
<a href="#">Dual-core Intel® Itanium Processor 9130M</a>	1.66 GHz	Oct-07	90nm	1.72 billion	8 GB	1024 GB	667 MHz	Demanding enterprise-class servers and high-performance applications
<a href="#">Dual-core Intel® Itanium Processor 9110N</a>	1.60 GHz	Oct-07	90nm	1.72 billion	12 GB	1024 GB	400/533 MHz	Demanding enterprise-class servers and high-performance applications
	1.66 GHz	Oct-07	90nm		24 GB	1024 GB	667 MHz	

<a href="#">Dual-core Intel® Itanium Processor 9150M</a>				1.72 billion				Demanding enterprise-class servers and high-performance applications
<a href="#">Dual-core Intel® Itanium Processor 9150M</a>	1.66 GHz	Oct-07	90nm	1.72 billion	24 GB	1024 GB	667 MHz	Demanding enterprise-class servers and high-performance applications
<a href="#">Dual Core Intel® Itanium® 2 Processor</a>	1.60-1.40 GHz	Jul-06	90nm	1.72 billion	16 MB	1024 TB	400 MHz	Demanding enterprise-class servers and high-performance applications
<a href="#">Intel® Itanium® 2 Processor</a>	1.60 GHz	Mid-2006	90nm	1.72 billion	12 MB L3 Cache	1024 TB	400 MHz	Demanding enterprise-class servers and high-performance applications
<a href="#">Intel® Itanium® 2 Processor</a>		Jul-05	90nm	1.72 billion	6-9 MB L3 Cache	1024 TB	667 MHz	Demanding enterprise-class servers and high-performance applications
<a href="#">Intel® Itanium® 2 Processor</a>	1.60 GHz	Nov-04	0.13 micron	592 million	3 MB L3 Cache	1024 TB	533 MHz 400 MHz	Demanding enterprise-class servers and high performance applications
<a href="#">Intel® Itanium® 2 Processor</a>	1 GHz	Sep-03	0.13 micron	410 million	1.5 MB L3 Cache	1024 TB	400 MHz	Demanding enterprise-class servers and high

								performance applications
<a href="#">Intel® Itanium® 2 Processor</a>	1.60 - 1.50 GHz	Nov-03	0.13 micron	592 million	3 MB, 4 MB, 6 MB and 9 MB L3 Cache	1024 TB	400 MHz	Demanding enterprise-class servers and high performance applications
<a href="#">Intel® Itanium® 2 Processor</a>	1.60 - 1.30 GHz	Jun-03	0.13 micron	410 million	1.5 MB, 3 MB and 6 MB L3 Cache	1024 TB	400 MHz	Demanding enterprise-class servers and high-performance applications
<a href="#">Intel® Itanium® 2 Processor</a>	1 GHz 900 MHz	Jul-02	0.18 micron	220 million	1.5 MB and 3 MB L3 Cache	1024 TB	400 MHz	Demanding enterprise-class servers and high-performance applications
<a href="#">Intel® Itanium® 2 Processor</a>	800 MHz 733 MHz	May-01	0.18 micron	25 million	2 MB and 4 MB L3 Cache	16 TB	266 MHz	Demanding enterprise-class servers and high-performance applications
<a href="#">Intel® Itanium® 2 Processor</a>	1.60 GHz	Nov-04	0.13 micron	592 million	9 MB L3 Cache			Demanding enterprise-class servers and high-performance applications
<a href="#">Intel® Itanium® 2 Processor</a>	1.60 GHz	Nov-04	0.13 micron	592 million	6 MB L3 Cache			Demanding enterprise-class servers and high-performance applications
	1.50 GHz	Nov-04						

<a href="#">Intel® Itanium® 2 Processor</a>			0.13 micron	592 million	4 MB L3 Cache			Demanding enterprise-class servers and high-performance applications
<a href="#">Intel® Itanium® 2 Processor</a>	1.60 GHz	Nov-04	0.13 micron	592 million	3 MB L3 Cache			For dual processor servers
<a href="#">Intel® Itanium® 2 Processor</a>	1.60 GHz 1.40 GHz	Apr-04	0.13-micron	410 million	3 MB L3 Cache			Technical computing clusters and entry-level, front-end enterprise systems
<a href="#">Intel® Itanium® 2 Processor (for dual processor systems)</a>	1.40 GHz	Sep-03	0.13-micron	410 million	1.5 MB L3 Cache			Dual processor servers
<a href="#">Intel® Itanium® 2 Processor</a>	1.50 GHz	Jun-03	0.13-micron	410 million	6 MB L3 Cache			Demanding enterprise-class servers, and high-performance applications
<a href="#">Intel® Itanium® 2 Processor</a>	1 GHz 900 MHz	Jul-02	0.18-micron	220 million	3 MB and 1.5 MB L3 Cache			Demanding enterprise-class servers, and high-performance applications
<a href="#">Intel® Itanium® Processor</a>	800 MHz 733 MHz	May-01	0.18-micron	25 million	2 MB and 4 MB L3 Cache			Demanding enterprise-class servers, and high-performance applications

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<i>Low Voltage</i>						
Processor	Clock Speed(s)	Intro Date (s)	Mfg. Process/ Transistors	Cache	Wattage	Typical Use
<a href="#">Low Voltage Intel® Itanium® 2 Processor</a>	1.30 GHz	Nov-04	0.13 micron 592 million	3 MB L3 Cache		Low voltage, blade servers
<a href="#">Low Voltage Intel® Itanium® 2 Processor</a>	1 GHz	Sept-03	0.13-micron 410 million	1.5 MB L3 Cache	62 Watts	Low voltage, blade servers

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### Intel® Xeon™ Processor Family

Processor	Clock Speed(s)	Intro Date(s)	Mfg. Process	Transistors	Cache	Addressable Memory	Bus Speed	Typical Use
<a href="#">Intel® Xeon® Processor MP X7460</a>	2.66 GHz	Sep-08	45nm	1.90 billion	16 MB	1 TB	1066 MHz	Server
<a href="#">Intel® Xeon® Processor MP L7455</a>	2.13 GHz	Sep-08	45nm	1.90 billion	12 MB	1 TB	1066 MHz	Server
<a href="#">Intel® Xeon®</a>	2.13 GHz	Sep-08	45nm	1.90 billion	12 MB	1 TB	1066 MHz	Server



<a href="#">Processor MP L7445</a>								
<a href="#">Intel® Xeon® Processor MP E7450</a>	2.40 GHz	Sep-08	45nm	1.90 billion	12 MB	1 TB	1066 MHz	Server
<a href="#">Intel® Xeon® Processor MP E7440</a>	2.40 GHz	Sep-08	45nm	1.90 billion	16 MB	1 TB	1066 MHz	Server
<a href="#">Intel® Xeon® Processor MP E7430</a>	2.13 GHz	Sep-08	45nm	1.90 billion	12 MB	1 TB	1066 MHz	Server
<a href="#">Intel® Xeon® Processor MP E7420</a>	2.13 GHz	Sep-08	45nm	1.90 billion	8 MB	1 TB	1066 MHz	Server
<a href="#">Quad-core Intel® Xeon® Processor X3360</a>	2.83 GHz	Jan-08	45nm	820 million	12 MB	64 GB	1333 MT/s	Server
<a href="#">Quad-core Intel® Xeon® Processor X3350</a>	2.66 GHz	Jan-08	45nm	820 million	12 MB	64 GB	1333 MT/s	Server
<a href="#">Quad-core Intel® Xeon® Processor X3320</a>	2.50 GHz	Jan-08	45nm	820 million	6 MB	64 GB	1333 MT/s	Server

<a href="#">Dual-core Intel® Xeon® Processor E3110</a>	3 GHz	Jan-08	45nm	410 million	6 MB	64 GB	1333 MT/s	Server
<a href="#">Quad-core Intel® Xeon® Processor X7350</a>	2.93 GHz	Sept-07	65nm	582 million	8 MB	1024 GB	1066 MHz	Server
<a href="#">Quad-core Intel® Xeon® Processor L7345</a>	1.86 GHz	Sept-07	65nm	582 million	8 MB	1024 GB	1066 MHz	Server
<a href="#">Quad-core Intel® Xeon® Processor E7340</a>	2.40 GHz	Sept-07	65nm	582 million	8 MB	1024 GB	1066 MHz	Server
<a href="#">Quad-core Intel® Xeon® Processor E7330</a>	2.4 GHz	Sept-07	65nm	582 million	6 MB	1024 GB	1066 MHz	Server
<a href="#">Quad-core Intel® Xeon® Processor E7320</a>	2.13 GHz	Sept-07	65nm	582 million	4 MB	1024 GB	1066 MHz	Server
<a href="#">Quad-core Intel® Xeon®</a>	1.60 GHz	Sept-07	65nm	582 million	4 MB	1024 GB	1066 MHz	Server

<a href="#">Processor E7310</a>								
<a href="#">Quad Core Intel® Xeon™ X5482</a>	3.20 GHz	Nov-07	45nm	820 million	12 MB	64 GB	1600 MHz	Server
<a href="#">Quad Core Intel® Xeon™ X5472</a>	3.00 GHz	Nov-07	45nm	820 million	12 MB	64 GB	1600 MHz	Server
<a href="#">Quad Core Intel® Xeon™ E5472</a>	3.00 GHz	Nov-07	45nm	820 million	12 MB	64 GB	1600 MHz	Server
<a href="#">Quad Core Intel® Xeon™ E5462</a>	2.80 GHz	Nov-07	45nm	820 million	12 MB	64 GB	1600 MHz	Server
<a href="#">Quad Core Intel® Xeon™ X5460</a>	3.16 GHz	Nov-07	45nm	820 million	12 MB	64 GB	1333 MHz	Server
<a href="#">Quad Core Intel® Xeon™ X5450</a>	3.00 GHz	Nov-07	45nm	820 million	12 MB	64 GB	1333 MHz	Server
<a href="#">Quad Core Intel® Xeon™ E5450</a>	3.00 GHz	Nov-07	45nm	820 million	12 MB	64 GB	1333 MHz	Server
<a href="#">Quad Core Intel®</a>	2.83 GHz	Nov-07	45nm	820 million	12 MB	64 GB	1333 MHz	Server

<a href="#">Xeon™ E5440</a>								
<a href="#">Quad Core Intel® Xeon™ E5430</a>	2.66 GHz	Nov-07	45nm	820 million	12 MB	64 GB	1333 MHz	Server
<a href="#">Quad Core Intel® Xeon™ E5420</a>	2.50 GHz	Nov-07	45nm	820 million	12 MB	64 GB	1333 MHz	Server
<a href="#">Quad Core Intel® Xeon™ E5410</a>	2.33 GHz	Nov-07	45nm	820 million	12 MB	64 GB	1333 MHz	Server
<a href="#">Quad Core Intel® Xeon™ E5405</a>	2.00 GHz	Nov-07	45nm	820 million	12 MB	64 GB	1333 MHz	Server
<a href="#">Quad Core Intel® Xeon™ L5335</a>	2 GHz	Aug-07	65nm	582 million	8 MB	64 GB	1333 MHz	Server
<a href="#">Quad Core Intel® Xeon™ L5320 and L5310</a>	1.60-1.86 GHz	Mar-07	65nm	582 million	8 MB	64 GB	1066 MHz	Server
<a href="#">Quad Core Intel® Xeon™ 3200</a>	2.13-2.40 GHz	Jan-07	65nm	582 million	8 MB	64 GB	1066 MHz	Server
<a href="#">Quad Core Intel®</a>	3 GHz	Aug-07	65nm	582 million	8 MB	64 GB	1333 MHz	Server

<a href="#">Xeon™ X5365</a>								
<a href="#">Quad Core Intel® Xeon™ X5355</a>	2.66 GHz	Nov-06	65nm	582 million	8 MB	64 GB	1333 MHz	Server
<a href="#">Quad Core Intel® Xeon™ E5345</a>	2.33 GHz	Nov-06	65nm	582 million	8 MB	64 GB	1333 MHz	Server
<a href="#">Quad Core Intel® Xeon™ E5335</a>	2 GHz	Mar-07	65nm	582 million	8 MB	64 GB	1333 MHz	Server
<a href="#">Quad Core Intel® Xeon™ E5320</a>	1.86 GHz	Nov-06	65nm	582 million	8 MB	64 GB	1066 MHz	Server
<a href="#">Quad Core Intel® Xeon™ E5320</a>	1.60 GHz	Nov-06	65nm	582 million	8 MB	64 GB	1066 MHz	Server
<a href="#">Quad Core Intel® Xeon™ 7140M</a>	3.40-3.33 GHz	Aug-06	90nm	1328 million	16 MB	64 GB	800 MHz	Server
<a href="#">Quad Core Intel® Xeon™ 7130M</a>	3.20-3.16 GHz	Aug-06	90nm	1328 million	8 MB	64 GB	667-800 MHz	Server
<a href="#">Quad Core Intel®</a>	3 GHz	Aug-06	90nm	1328 million	4 MB	64 GB	667-800 MHz	Server

<a href="#">Xeon™ 7120M</a>								
<a href="#">Quad Core Intel® Xeon™ 7110M</a>	2.60-2.50 GHz	Aug-06	90nm	1328 million	4 MB	64 GB	667-800 MHz	Server
<a href="#">Quad Core Intel® Xeon™ 5100</a>	3-2.33 GHz	Jun-06	65nm	291 million	8 MB	64 GB	1333 MHz	Server
<a href="#">Dual Core Intel® Xeon™ Processor E5205</a>	3.40 GHz	Nov-07	45nm	410 Million	6 MB	64 GB	1333 MHz	Server
<a href="#">Dual Core Intel® Xeon™ Processor X5272</a>	1.86 GHz	Nov-07	45nm	410 million	6 MB	64 GB	1066 MHz	Server
<a href="#">Dual Core Intel® Xeon™ Processor</a>	3.73-3.20 GHz	May-06	65nm	376 million	2 MB	64 GB	1066 MHz	Server
<a href="#">Dual Core Intel® Xeon™ Processor</a>	3 GHz	May-06	65nm	376 million	2 MB	64 GB	667 MHz	Server
<a href="#">Dual Core Intel® Xeon™ Processor 7000</a>	3 - 2.66 GHz	Nov-05	90nm	338 million	2048 kB L2 Cache		667 MHz	Multi-processing mid-tier and back- end servers

<a href="#">Dual Core Intel® Xeon™ Processor</a>	2.80 GHz	Oct-05	90nm	338 million	2048 kB L2 Cache		800 MHz	Server
<a href="#">Dual Core Intel® Xeon™ Processor X5260</a>	3.33 GHz	Nov-07	45nm	410 million	6 MB	64 GB	1333 MHz	Servers
<a href="#">Intel® Xeon™ Processor</a>	3.66 - 3.16 GHz	Mar-05	90nm	125 million	1024 kB L2 Cache		667 MHz	Server
<a href="#">Intel® Xeon™ Processor MP</a>	3.66 - 2.66 GHz	Mar-05	90nm	675 million	4 MB and 8MB L3 Cache	1024 GB	667 MHz	Back-end servers
<a href="#">Intel® Xeon™ Processor</a>	3.60-2.80 GHz	Feb-05	90nm	169 million	2048 kB L2 Cache		800 MHz	Workstations and servers
<a href="#">Intel® Xeon™ Processor</a>	3.60-2.80 GHz	Jun-04	90nm	125 million	1024 kB L2 Cache		800 MHz	Workstations and servers
<a href="#">Intel® Xeon™ Processor MP</a>	3-1.50 GHz	Nov-02	90nm	178 and 286 million	1024 kB L2 Cache		400 MHz	Multi-processing mid-tier and back-end servers
<a href="#">Intel® Xeon™ Processor</a>	3.20-1.80 GHz	Jan-02	0.13 micron	55 million	1 MB L2 Cache		533 MHz 400 MHz	Server
<a href="#">Intel® Xeon™ Processor MP</a>	1.60 - 1.40 GHz	Mar-02	0.18 micron	110 million	512 kB and 1 MB L3 Cache		400 MHz	Multi-processing mid-tier and back-end servers

<a href="#">Intel® Xeon™ Processor</a>	2-1.40 GHz	May-01	0.18 micron	42 million	256 kB L2 Cache		400 MHz	High-performance and mid-range dual processor enabled workstations and servers
<a href="#">Intel® Xeon™ Processor MP</a>	3.60 GHz	Feb-05	90nm		2 MB Integrated L2 Cache		800 MHz	Workstations and servers
<a href="#">Intel® Xeon™ Processor MP</a>	3.40 GHz	Feb-05	90nm		2 MB Integrated L2 Cache		800 MHz	Workstations and servers
<a href="#">Intel® Xeon™ Processor MP</a>	3.20 GHz	Feb-05	90nm		2 MB Integrated L2 Cache		800 MHz	Workstations and servers
<a href="#">Intel® Xeon™ Processor MP</a>	3.00 GHz	Feb-05	90nm		2 MB Integrated L2 Cache		800 MHz	Workstations and servers
<a href="#">Intel® Xeon™ Processor MP</a>	3 GHz 2.70 GHz 2.20 GHz	Mar-04	0.13-micron	286 million	4 MB, 2MB Integrated L3 Cache		400 MHz	Multi-processing mid-tier and back-end servers
<a href="#">Intel® Xeon™ Processor MP</a>	2.80 GHz 2.50 GHz 2 GHz	Jun-02	0.13-micron	178 million	2 MB, 1MB Integrated L3 Cache		400 MHz	Multi-processing mid-tier and back-end servers
<a href="#">Intel® Xeon™ Processor</a>	2 GHz 1.90 GHz 1.50 GHz	Nov-02	0.13-micron	178 million	2 MB, 1 MB		400 MHz	Multi-processing mid-tier and back-end servers



<a href="#">Processor MP</a>					Integrated L3 Cache			
<a href="#">Intel® Xeon™ Processor MP</a>	1.60 GHz 1.50 GHz 1.40 GHz	Mar-02	0.18-micron	108 million	256 KB Adv. Transfer L2 Cache 8 KB Execution Trace L1 Cache		400 MHz	Multi-processing mid-tier and back-end servers
<a href="#">Intel® Xeon™ Processor MP</a>	3.60 GHz	Jun-04	90nm		1 MB Integrated L2 Cache		800 MHz	Workstations and servers
<a href="#">Intel® Xeon™ Processor MP</a>	3.40 GHz	Jun-04	90nm		1 MB Integrated L2 Cache		800 MHz	Workstations and servers
<a href="#">Intel® Xeon™ Processor MP</a>	3.20 GHz	Jun-04	90nm		1 MB Integrated L2 Cache		800 MHz	Workstations and servers
<a href="#">Intel® Xeon™ Processor MP</a>	3.00 GHz	Jun-04	90nm		1 MB Integrated L2 Cache		800 MHz	Workstations and servers
<a href="#">Intel® Xeon™ Processor MP</a>	2.80 GHz	Jun-04	90nm		1 MB Integrated L2 Cache		800 MHz	Workstations and servers
<a href="#">Intel® Xeon™ Processor</a>	3.20 GHz	Oct-03	0.13-micron	178 million	2 MB L3 Cache		533 MHz	Workstations and servers

<a href="#">Intel® Xeon™ Processor</a>	3.06 GHz	Jul-03	0.13-micron	178 million	1 MB L3 Cache		533 MHz	Workstations and servers
<a href="#">Intel® Xeon™ Processor</a>	3.06 GHz	Mar-03	0.13-micron	55 million	512 KB L2 Cache		533 MHz	Workstations and servers
<a href="#">Intel® Xeon™ Processor</a>	2.80 GHz 2.66 GHz 2.40 GHz 2 GHz	Nov-02	0.13-micron	55 million	512 KB L2 Cache		533 MHz	Workstations and servers
<a href="#">Intel® Xeon™ Processor</a>	2.80 GHz 2.60 GHz 2.40 GHz 2.20 GHz 2 GHz 1.80 GHz	Jan-02	0.13-micron	55 million	512 KB Advanced Transfer L2 Cache		400 MHz	High-performance and mid-range dual processor enabled workstations and servers.
<a href="#">Intel® Xeon™ Processor</a>	2 GHz 1.70 GHz 1.50 GHz 1.40 GHz	May-01	0.18-micron	42 million	256 KB Advanced Transfer L2 Cache		400 MHz	High-performance and mid-range dual processor enabled workstations and servers.

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## Intel® Pentium® 4 Processor

<i>Desktop</i>								
Processor	Clock Speed(s)	Intro Date(s)	Mfg. Process	Transistors	Cache	Addressable Memory	Bus Speed	Typical Use
	3.80 - 3 GHz	Jan-06	65nm			64 GB	800 MHz	Desktop PC

Intel® Pentium® 4 Processor 6X1				118 million	2048 kB L2 Cache			
Intel® Pentium® 4 Processor 662 and 672	3.80 - 3.60 GHz	Nov-05	90nm	169 million	2048 kB L2 Cache	64 GB	800 MHz	Desktop PC
Intel® Pentium® 4 Processor 600	3.80 - 3 GHz	Feb-05	90nm	169 million	2048 kB L2 Cache	64 GB	800 MHz	Desktop PC
<a href="#">Intel® Pentium® 4 Processor Extreme Edition</a>	3.73 GHz	Feb-05	90nm	169 million	2048 kB L2 Cache	64 GB	1066 MHz	Gaming and Computing Enthusiasts
<a href="#">Intel® Pentium® 4 Notebook Processor</a>	3.46 - 2.80 GHz	Jun-04	90nm	125 million	1024 kB L2 Cache	4 GB	533 MHz	Mobile PC
Intel® Pentium® 4 Processor	3.80-2.40 GHz	Feb-04	90nm	125 million	1024 kB L2 Cache	4 GB	800 MHz 533 MHz	Desktop PC
<a href="#">Intel® Pentium® 4 Processor Extreme Edition</a>	3.46-3.20 GHz	Nov-03	0.13 micron	178 million	2 MB L3 Cache	4 GB	1066 MHz 800 MHz	Gaming and Computing Enthusiasts
<a href="#">Intel® Pentium® 4 Notebook Processor</a>	3.20-1.40 GHz	Mar-02	0.13 micron	55 million	512 kB L2 Cache	4 GB	533 MHz 400 MHz	Mobile PC
Intel® Pentium® 4 Processor	3.40-1.80 GHz	Aug-01	0.13 micron	55 million	512 kB L2 Cache	4 GB	800 MHz 533 MHz 400 MHz	Desktop PC
Intel® Pentium® 4 Processor	2-1.30 GHz	Nov-00	0.18 micron	42 million	256 kB L2 Cache	4 GB	400 MHz	
<a href="#">Intel® Pentium® 4 Processor Extreme Edition supporting HT Technology</a>	3.73 GHz	Feb-05	90nm	169 million	2 MB L2 Cache	64 GB	1066 MHz	Gaming and Computing Enthusiasts
	3.46 GHz	Nov-04						

<a href="#">Intel® Pentium® 4 Processor Extreme Edition supporting HT Technology</a>			0.13-micron	178 million	2 MB L3 Cache; 512 KB L2 Cache		1066 MHz	Gaming and Computing Enthusiasts
<a href="#">Intel® Pentium® 4 Processor Extreme Edition supporting HT Technology</a>	3.40 GHz 3.20 GHz	Nov-03	0.13-micron	178 million	2 MB L3 Cache; 512 KB L2 Cache		800 MHz	Gaming and Computing Enthusiasts
Intel® Pentium® 4 Processor supporting HT Technology 660-630	3.60-3 GHz	Feb-05	90nm	169 million	2 MB L2 Cache		800 MHz	Desktop PC
Intel® Pentium® 4 Processor supporting HT Technology 570 560 550 540 530 520	3.80 GHz 3.60 GHz 3.40 GHz 3.20 GHz 3 GHz 2.80 GHz	Jun-04	90nm	125 million	1 MB L2 Cache		800 MHz	Desktops and entry-level workstations
Intel® Pentium® 4 Processor supporting HT Technology	3.40 GHz 3.20E GHz 3E GHz 2.80E GHz	Feb-04	90nm	125 million	1 MB L2 Cache		800 MHz	Desktops and entry-level workstations
Intel® Pentium® 4 Processor supporting HT Technology	3.40 GHz 3.20 GHz 2.80C GHz	May-03	0.13-micron	55 million	512 KB Advanced Transfer L2 Cache		800 MHz	Desktops and entry-level workstations

	2.60C GHz 2.40C GHz							
Intel® Pentium® 4 Processor supporting HT Technology	3 GHz	Apr-03	0.13- micron	55 million	512 KB Advanced Transfer L2 Cache		800 MHz	Desktops and entry-level workstations
Intel® Pentium® 4 Processor supporting HT Technology	3.06 GHz	Nov-02	0.13- micron	55 million	512 KB Advanced Transfer L2 Cache		533 MHz	Desktops and entry-level workstations
Intel® Pentium® 4 Processor	2.80 GHz 2.66 GHz 2.53 GHz 2.40 GHz 2.26 GHz	May-02	0.13- micron	55 million	512 KB Advanced Transfer L2 Cache		533 MHz	Desktops and entry-level workstations
Intel® Pentium® 4 Processor	2.60 GHz 2.50 GHz 2.40 GHz 2.20 GHz 2 GHz	Aug-01	0.13- micron	55 million	512 KB Advanced Transfer L2 Cache		400 MHz	Desktops and entry-level workstations
Intel® Pentium® 4 Processor	2 GHz 1.90 GHz 1.80 GHz 1.70 GHz 1.60 GHz 1.50 GHz 1.40 GHz	Nov-00	0.18- micron	42 million	256 KB Advanced Transfer L2 Cache		400 MHz	Desktops and entry-level workstations

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<i>Mobile</i>								
Processor				Cache		Voltage		Typical Use

	Clock Speed(s)	Intro Date(s)	Mfg. Process/ Transistors		Bus Speed		Thermal Design Power (TDP)	
<a href="#">Mobile Intel® Pentium® 4 Processor supporting HT Technology 552 548</a>	3.46 GHz 3.33 GHz	Sep-04	90nm  125 million	1 MB L2 Cache	533 MHz	1.40V / 1.15V Battery Optimized	88 W	Full size and desktop replacement Mobile PC
<a href="#">Mobile Intel® Pentium® 4 Processor supporting HT Technology 538</a>	3.20 GHz	Jun-04	90nm  125 million	1 MB L2 Cache	533 MHz	1.40V / 1.15V Battery Optimized	88 W	Full size and desktop replacement Mobile PC
<a href="#">Mobile Intel® Pentium® 4 Processor supporting HT Technology 532</a>	3.06 GHz	Jun-04	90nm  125 million	1 MB L2 Cache	533 MHz	1.40V / 1.15V Battery Optimized	88 W	Full size and desktop replacement Mobile PC
<a href="#">Mobile Intel® Pentium® 4 Processor supporting HT Technology 518</a>	2.80 GHz	Jun-04	90nm  125 million	1 MB L2 Cache	533 MHz	1.40V / 1.15V Battery Optimized	88 W	Full size and desktop replacement Mobile PC
<a href="#">Mobile Intel® Pentium® 4 Processor supporting HT Technology</a>	3.20 GHz 3.06 GHz	Sep-03	0.13- micron  55 million	512 KB L2 Cache	533 MHz	1.55 volts / 1.20 volts Battery Optimized	76 W	Full size and desktop replacement Mobile PC
<a href="#">Mobile Intel® Pentium® 4 Processor supporting HT Technology</a>	2.80 GHz	Sep-03	0.13- micron  55 million	512 KB L2 Cache	533 MHz	1.525 volts / 1.20 volts Battery Optimized	76 W	Full size and desktop replacement Mobile PC

<a href="#">Mobile Intel® Pentium® 4 Processor supporting HT Technology</a>	2.66 GHz	Sep-03	0.13-micron 55 million	512 KB L2 Cache	533 MHz	1.525 volts / 1.20 volts Battery Optimized	76 W	Full size and desktop replacement Mobile PC
<a href="#">Mobile Intel® Pentium® 4 Processor-M</a>	2.60 GHz 2.50 GHz 2.40 GHz 2.20 GHz 2 GHz 1.90 GHz 1.80 GHz 1.70 GHz 1.60 GHz 1.50 GHz 1.40 GHz	Mar-02	0.13-micron 55 million	512 KB L2 Cache	400 MHz	1.3 volts in Max. Perf. Mode 1.2 volts in Battery Optimized Mode	NA	Full-size and thin & light Mobile PC
<a href="#">Mobile Intel® Pentium® 4 Processor</a>	3.06 GHz	Jun-03	0.13-micron 55 million	512 KB L2 Cache	533 MHz	1.55 volts / 1.20 volts Battery Optimized	76 W	Full size and desktop replacement Mobile PC
<a href="#">Mobile Intel® Pentium® 4 Processor</a>	2.80 GHz 2.66 GHz 2.40 GHz	Jun-03	0.13-micron 55 million	512 KB L2 Cache	533 MHz	1.525 volts/ 1.20 volts Battery Optimized	76 W	Full size and desktop replacement Mobile PC

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<i>Applied Computing</i>						
Processor	Clock Speed(s)	Intro Date(s)	Mfg. Process/ Transistors	Cache	Bus Speed	Typical Use
	2.40 GHz	Jun-02	0.13-micron	5512 KB	400 MHz	

<a href="#">Intel® Pentium® 4 Processor for Applied Computing</a>			55 million	L2 Cache	533 MHz	Applied computing, communications, interactive client and industrial automation applications.
<a href="#">Mobile Intel® Pentium® 4 Processor-M for Applied Computing</a>	1.70 GHz	Jun-02	0.13-micron 55 million	512 KB L2 Cache	400 MHz 533 MHz	Applied computing, communications, interactive client and industrial automation applications.

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## Intel® Pentium® III Processor

<i>Desktop</i>								
Processor	Clock Speed(s)	Intro Date(s)	Mfg. Process	Transistors	Cache	Addressable Memory	Bus Speed	Typical Use
<a href="#">Intel® Pentium® III Processor</a>	1.40 - 1.13 GHz	Jan-02	0.13 micron	44 million	512 kB L2 Cache	64 GB	133 MHz	Business and consumer Mobile PC
<a href="#">Intel® Pentium® III Notebook Processor M</a>	1.33 GHz - 700 MHz	Jul-01	0.13 micron	44 million	512 kB L2 Cache	64 GB	133 MHz	Full-size and thin & light Mobile PC
<a href="#">Intel® Pentium® III Notebook Processor</a>	1 GHz - 400 MHz	Oct-99	0.18 micron	28.1 million	256 kB L2 Cache	4 GB	100 MHz	Full-size and thin & light Mobile PC
<a href="#">Intel® Pentium®</a>	1.13 GHz - 500 MHz	Oct-99	0.18 micron	28.1 million	256 kB L2 Cache	4 GB	133 100 MHz	



<a href="#">III Processor</a>								Full-size and thin & light Mobile PC
<a href="#">Intel® Pentium® III Processor</a>	600 - 450 MHz	Feb-99	0.25 micron	9.5 million	512 kB L2 Cache	4 GB	133 MHz	Business, consumer PCs; 1- and 2-way servers and workstations
<a href="#">Intel® Pentium® III Processor</a>	1 GHz 933 MHz 866 MHz 850 MHz	May-00	0.18-micron	28 million	256 KB Advanced Transfer Cache		100 MHz 133 MHz	Business, consumer PCs; 1- and 2-way servers and workstations
<a href="#">Intel® Pentium® III Processor</a>	733 MHz 700 MHz 667 MHz 650 MHz 600 MHz 550 MHz 533 MHz 500 MHz	Oct-99	0.18-micron	28 million	256 KB Advanced Transfer Cache		100 MHz 133 MHz	Business, consumer PCs; 1- and 2-way servers and workstations
<a href="#">Intel® Pentium® III Processor</a>	600 MHz 550 MHz 500 MHz 450 MHz	Feb-99	0.25-micron	.5 million	512 KB		100 MHz	Business, consumer PCs; 1- and 2-way servers and workstations

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<i>Server</i>						
Processor	Clock Speed(s)	Intro Date(s)	Mfg. Process/ Transistors	Cache	Bus Speed	Typical Use

Intel® Pentium® III Processor for servers	1.40 GHz	Jan-02	0.13-micron 44 million	512 KB Advanced Transfer Cache	133 MHz	Rack-mounted and pedestal front-end application servers; ultra-dense servers
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<i>Ultra-Low Voltage</i>								
Processor	Clock Speed(s)	Intro Date(s)	Mfg. Process/ Transistors	Cache	Bus Speed	Core Voltage	Wattage	Typical Use
<a href="#">Ultra Low Voltage Mobile Intel® Pentium® III Processor-M</a>	933 MHz / 400 MHz Battery Optimized	Jan-03	0.13-micron 55 million	512 KB Advanced Transfer Cache	133 MHz	1.1V Max. Performance 0.95V Battery Optimized	<0.5 Battery Optimized	Mini- and Sub-notebooks, Ultra-dense blade servers
<a href="#">Ultra Low Voltage Mobile Intel® Pentium® III Processor-M</a>	900 MHz / 400 MHz Battery Optimized	Jan-03	0.13-micron 55 million	512 KB Advanced Transfer Cache	100 MHz	1.1V Max. Performance 0.95V Battery Optimized	<0.5 Battery Optimized	Mini- and Sub-notebooks, Ultra-dense blade servers
<a href="#">Ultra Low Voltage Mobile Intel® Pentium® III Processor-M</a>	866 MHz / 400 MHz Battery Optimized	Sept-02	0.13-micron 55 million	512 KB Advanced Transfer Cache	133 MHz	1.1V Max. Performance 0.95V Battery Optimized	<0.5 Battery Optimized	Mini- and Sub-notebooks, Ultra-dense blade servers
<a href="#">Ultra Low Voltage Mobile Intel® Pentium® III Processor-M</a>	850 MHz / 400 MHz Battery Optimized	Sept-02	0.13-micron 44 million	512 KB Advanced Transfer Cache	100 MHz	1.1V Max. Performance 0.95V Battery Optimized	<0.5 Battery Optimized	Mini- and Sub-notebooks,

								Ultra-dense blade servers
<a href="#">Ultra Low Voltage Mobile Intel® Pentium® III Processor</a>	800 MHz / 400 MHz Battery Optimized	Apr-02	0.13-micron 44 million	512 KB Advanced Transfer Cache	133 MHz	1.5V in Max. Perf. Mode 1.05V in Battery Optimized Mode	<0.5 watts in Battery Optimized Mode	Mini- and Sub-notebooks
<a href="#">Ultra Low Voltage Mobile Intel® Pentium® III Processor-M</a>	800 MHz / 400 MHz Battery Optimized	Apr-02	0.13-micron 44 million	512 KB Advanced Transfer Cache	100 MHz	1.5V in Max. Perf. Mode 1.05V in Battery Optimized Mode	<0.5 watts in Battery Optimized Mode	Mini- and Sub-notebooks, Ultra-dense blade servers
<a href="#">Ultra Low Voltage Mobile Intel® Pentium® III Processor 512K</a>	700 MHz	Nov-001	0.13-micron 44 million	512 KB L2 Cache	100 MHz	1.1V		Ultra-dense servers
<a href="#">Ultra Low Voltage Mobile Intel® Pentium® III Processor Featuring Intel® SpeedStep™ Technology</a>	750 MHz / 350 MHz Battery Optimized	Jan-02	0.13-micron 44 million	512 KB Advanced Transfer Cache	133 MHz	1.1V / < 0.95V Battery Optimized	<0.5 watt Battery Optimized	Business and consumer Mobile PC
<a href="#">Ultra Low Voltage Mobile Intel® Pentium® III Processor Featuring Intel® SpeedStep™ Technology</a>	750 MHz / 500 MHz	Jan-01	0.13-micron 44 million	256 KB Advanced Transfer Cache	100 MHz	1.1V at 600, 500 MHz  < 1V Battery Optimized	<1 watt at 600, 500 MHz  < 0.5 watt at 300 MHz	Business and consumer Mobile PC

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<a href="#">Low Voltage Mobile Intel® Pentium® III Processor-M Featuring Intel® SpeedStep™ Technology</a>	1 GHz / 533 MHz Battery Optimized  933 MHz / 533 MHz Battery Optimized  866 MHz / 533 MHz Battery Optimized  850 MHz / 500 MHz Battery Optimized	<u>Sep-02</u> 1 GHz  <u>Apr. 17, 2002</u> 933 MHz  <u>Jan. 21, 2002</u> 866 MHz 850 MHz	0.13-micron  44 million	512 KB Advanced Transfer Cache	133 MHz	1.15V / 1.05V Battery Optimized	<1 watt Battery Optimized	Business and Consumer Mobile PC
<a href="#">Low Voltage Mobile Intel® Pentium® III Processor Featuring Intel® SpeedStep™ Technology</a>	750 MHz / 500 MHz Battery Optimized  700 MHz / 500 MHz Battery Optimized  600 MHz / 500 MHz Battery Optimized	<u>May 21-01</u> 750 MHz  <u>Feb. 27, 2001</u> 700 MHz  <u>Jun. 19, 2000</u> 600 MHz	0.18-micron  28 million	256 KB Advanced Transfer Cache	100 MHz	1.1V Battery Optimized	<1 watt Battery Optimized	Business and Consumer Mobile PC

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<i>Mobile</i>								
Processor	Clock Speed(s)	Intro Date(s)	Mfg. Process/ Transistors	Cache	Bus Speed	Core Voltage	Wattage	Typical Use
<a href="#">Mobile Intel® Pentium® III Processor-M</a>	1.33 GHz 1.26 GHz	Sep-02	0.13- micron  44 million	512 KB L2 Cache	133 MHz	1.4V / 1.15V Battery Optimized	<1.5 watts Battery Optimized	Full-size and thin & light Mobile PC
<a href="#">Mobile Intel® Pentium® III Processor-M</a>	1.20 GHz 1.13 GHz 1.06 GHz 1 GHz	Jul-01	0.13- micron  44 million	512 KB L2 Cache	133 MHz	1.4V / 1.15V Battery Optimized	<2 watts Battery Optimized	Full-size and thin & light Mobile PC
<a href="#">Mobile Intel® Pentium® III Processor-M</a>	933 MHz 866 MHz	Jul-01	0.13- micron  28 million	512 KB L2 Cache	133 MHz	1.15V / 1.05V Battery Optimized	<1 watt Battery Optimized	Full-size and thin & light Mobile PC
<a href="#">Mobile Intel® Pentium® III Processor Featuring Intel® SpeedStep™ Technology</a>	1 GHz 900 MHz 850 MHz 800 MHz 750 MHz	Jun-00	0.18- micron  28 million	256 KB Advanced Transfer Cache	100 MHz	1.35V / 1.05V Battery Optimized	<2 watts Battery Optimized	Full-size and thin & light Mobile PC
<a href="#">Mobile Intel® Pentium® III Processor Featuring Intel® SpeedStep™ Technology</a>	700 MHz / 550 MHz Battery Optimized  650 MHz / 500 MHz Battery Optimized  600 MHz /	Jan-00	0.18- micron  28 million	256 KB Advanced Transfer Cache	100 MHz	1.35V	<2 watts Battery Optimized	Full-size and thin & light Mobile PC

	500 MHz Battery Optimized							
<a href="#">Mobile Intel® Pentium® III Processor</a>	500 MHz 450 MHz 400 MHz	Oct-99	0.18- micron  28 million	256 KB Advanced Transfer Cache	100 MHz	<u>1.6V</u> 500 MHz 450 MHz  <u>1.35V</u> 400 MHz	n/a	Full-size and thin & light Mobile PC

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<i>Applied Computing</i>								
Processor	Clock Speed(s)	Intro Date(s)	Mfg. Process/ Transistors	Cache	Bus Speed	Core Voltage	Addressable Memory	Typical Use
<a href="#">Low Voltage Intel® Pentium® III Processor for Applied Computing</a>	700 MHz	Mar-01	0.18- micron  28 million	256 KB Advanced Transfer Cache	100 MHz	1.35V	64 GB	Small form factor boards, rack mount communications applications

[Back to top](#)**Intel® Celeron® Processor**

<i>Desktop</i>								
Processor	Clock Speed(s)	Intro Date(s)	Mfg. Process	Transistors	Addressable Memory	Cache	Bus Speed	Typical Use
	1.2 GHz	Aug-08	45nm		64 GB	1 MB	800 MHz	Mobile PC

<a href="#">Intel® Celeron® Processor 723</a>				205 million				
<a href="#">Intel® Celeron® Dual-Core Processor E1400</a>	2 GHz	Apr-08	65nm	210 million	64 GB	512 kB L1 Cache	800 MHz	Desktop PC
<a href="#">Intel® Celeron® Processor 570</a>	2.66 GHz	Apr-08	65nm	105 million	64 GB	1 MB L1 Cache	533 MHz	Mobile PC
<a href="#">Intel® Celeron® Processor</a>	300 - 200 MHz	Apr-98	0.25 micron	7.5 million	4 GB	16 kB L1 Cache	66 MHz	Value PC
<a href="#">Intel® Celeron® Processor</a>	533-300 MHz	Aug-98	0.25 micron	19 million	4 GB	128 kB L2 Cache	66 MHz	Value PC
<a href="#">Intel® Celeron® Notebook Processor</a>	466 - 266 MHz	Jan-99	0.25 micron	18.9 million	4 GB	128 kB L2 Cache	66 MHz	Value Mobile PC
<a href="#">Intel® Celeron® Processor</a>	1.10 GHz - 533 MHz	Mar-00	0.18 micron	28.1 million	4 GB	128 kB L2 Cache	100 MHz 66 MHz	Value PC
<a href="#">Intel® Celeron® Notebook Processor</a>	933-450 MHz	Feb-00	0.18 micron	28.1 million	4 GB	128 kB L2 Cache	133 MHz 100 MHz	Value Mobile PC
<a href="#">Intel® Celeron® Processor</a>	1.40 GHz - 900 MHz	Oct-01	0.13 micron	44 million	64 GB	256 kB L2 Cache	100 MHz	Value PC
<a href="#">Intel® Celeron® Notebook Processor</a>	1.33 GHz - 650 MHz	Jan-02	0.13 micron	44 million	64 GB	256 kB L2 Cache	133 100 MHz	Value Mobile PC
<a href="#">Intel® Celeron® Processor</a>	1.80 - 1.70 GHz	May-02	0.18 micron	42 million	4 GB	128 kB L2 Cache	400 MHz	Value PC

<a href="#">Intel® Celeron® Processor</a>	2.80-2 GHz	Sep-02	0.13 micron	55 million	4 GB	128 kB L2 Cache	400 MHz	Value PC
<a href="#">Intel® Celeron® Notebook Processor</a>	2.50-1.20 GHz	Jun-02	0.15 micron	55 million	4 GB	256 kB L2 Cache	400 MHz	Value PC
<a href="#">Intel® Celeron® D Processor</a>	3.06-2.26 GHz	Jun-04	90nm	125 million	4 GB	256 kB L2 Cache	533 MHz	Value and Desktop PC
<a href="#">Intel® Celeron® M Processor</a>	1.50-0.80 GHz	Jan-04	0.13 micron	77 million	4 GB	512 kB L2 Cache	400 MHz	Value Mobile PC
<a href="#">Intel® Celeron® M Processor</a>	1.50-0.90 GHz	Jul-04	90nm	140 million	4 GB	1024 kB L2 Cache	400 MHz	Value Mobile PC
<a href="#">Intel® Celeron® D Processor 351</a>	3.20 GHz	Jun-05	65-micron	188 million	64 GB	256 KB L2 Cache	533 MHz	Value Desktop PC
<a href="#">Intel® Celeron® Processor</a>	2.80 GHz 2.70 GHz	Sep-03	0.13-micron			128 KB L2 Cache	400 MHz	Value and Mobile PC
<a href="#">Intel® Celeron® Processor</a>	2.40 GHz 2.30 GHz 2.20 GHz 2.10 GHz	Nov-02	0.13-micron			128 KB L2 Cache	400 MHz	Value PC
<a href="#">Intel® Celeron® Processor</a>	2 GHz	Sep-02	0.13-micron			128 KB L2 Cache	400 MHz	Value PC
<a href="#">Intel® Celeron® Processor</a>	1.80 GHz 1.70 GHz	May-02	0.18-micron			128 KB L2 Cache	400 MHz	Value PC
		Oct-01					100 MHz	Value PC



<a href="#">Intel® Celeron® Processor</a>	1.40 GHz 1.30 GHz 1.20 GHz		0.13- micron			256 KB L2 Cache		
<a href="#">Intel® Celeron® Processor</a>	1.10 GHz 1 GHz 950 MHz 990 MHz 850 MHz 800 MHz	Jan-01	0.18- micron			128 KB L2 Cache	100 MHz	Value PC
<a href="#">Intel® Celeron® Processor</a>	766 MHz 733 MHz 700 MHz 667 MHz 633 MHz 600 MHz 566 MHz	Mar-00	0.18- micron			128 KB L2 Cache	66 MHz	Value PC
<a href="#">Intel® Celeron® Processor</a>	533 MHz 500 MHz 466 MHz 433 MHz 400 MHz 366 MHz 333 MHz 300 MHz	Aug-98	0.25- micron	19 million		128 KB L2 Cache	66 MHz	Value PC
<a href="#">Intel® Celeron® Processor</a>	300 MHz 266 MHz	Apr-98	0.25- micron	7.5 million		NA	66 MHz	Value PC

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<i>Ultra Low Voltage</i>									
Processor	Clock Speed(s)	Intro Date(s)	Mfg. Process/ Transistors	Addressable Memory	Cache	Bus Speed	Core Voltage	Thermal Design	Typical Use

								Power (TDP)	
<a href="#">Intel® Celeron® M ULV Processor 443/423</a>	1.20/1.06 GHz	Mar-06	65nm / 151 million	64 GB	1 MB	533 MHz			Value and Mobile PC
<a href="#">Intel® Celeron® M processor Ultra-Low Voltage</a>	1 GHz	Jan-05	90nm / 140 million	64 GB	512 KB L2 Cache	400 MHz	0.94 V	5W	Value and Mobile PC
<a href="#">Intel® Celeron® M processor Ultra-Low Voltage 353</a>	900 MHz	Jul-04	90nm / 140 million	64 GB	512 KB L2 Cache	400 MHz	0.94 V	5W	Value and Mobile PC
<a href="#">Ultra Low Voltage Intel® Celeron® M processor 383-333</a>	0.90-1 GHz	Mar-04	130nm / 140 million	64 GB	512 KB/1 MB	400 MHz			Business and consumer Mobile PC
<a href="#">Intel® Celeron® M ULV Processor</a>	800-600 MHz	Jan-03	0.13 micron / 44 million	4 GB	512 KB	400 MHz			Value ultra thin Notebook
<a href="#">Intel® Celeron® M ULV Processor 523</a>	933 MHz	Sept-07	65nm / 291 million	64 GB	1 MB	533 MHz			Value ultra thin Notebook
<a href="#">Ultra Low Voltage Mobile Intel® Celeron® Processor</a>	800 MHz 733 MHz 700 MHz 650 MHz	Jan-02	130nm / 140 million	64 GB	256 KB L2 Cache	133 MHz	1.1 volts	NA	Business and consumer Mobile PC

<a href="#">Ultra Low Voltage Intel® Mobile Celeron® Processor</a>	600 MHz 500 MHz	Jan-01	0.18-micron	64 GB	128 KB L2 Cache	100 MHz	1.1 volts	NA	Business and consumer Mobile PC
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<i>Low Voltage</i>								
Processor	Clock Speed(s)	Intro Date(s)	Mfg. Process/ Transistors	Cache	Bus Speed	Core Voltage	Thermal Design Power (TDP)	Typical Use
<a href="#">Low Voltage Mobile Intel® Celeron® Processor</a>	866 MHz 733 MHz	Apr-02	0.13-micron	256 KB L2 Cache	100 MHz	1.15 volts	NA	Value ultra-portable Mobile PC
<a href="#">Low Voltage Mobile Intel® Celeron® Processor</a>	600 MHz	May-01	0.18-micron	256 KB L2 Cache	100 MHz	1.35 volts	NA	Value ultra-portable Mobile PC

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<i>Mobile</i>										
Processor	Clock Speed(s)	Intro Date(s)	Mfg. Process	Transistors	Addressable Memory	Cache	Bus Speed	Core Voltage	Thermal Design Power (TDP)	Typical Use
<a href="#">Intel® Celeron® M</a>	1.73-2 GHz	Mar-06	65nm	151 million	64 GB	1 MB	400 MHz			Value Notebook

<a href="#">processor 450-430</a>										
<a href="#">Intel® Celeron® M processor 420/410 (EOL May 07)</a>	1.60 - 1.46 GHz	Mar-06	65nm	151 million	64 GB	1 MB	400 MHz			Value Notebook
<a href="#">Intel® Celeron® M Processor 390-310</a>	1.70-1.20 GHz	Mar-04	130/90nm	140 million	64 GB	512KB/1MB	400 MHz			Value Notebook
<a href="#">Intel® Celeron® M processor 383-333</a>	0.90-1 GHz	Mar-04	130/90nm	140 million		512KB/1MB	400 MHz	0.94 V		Value Notebook
<a href="#">Intel® Celeron® Processor</a>	2.40 GHz 2.30 GHz 2.20 GHz	Jun-03	0.13-micron			128 KB L2 Cache	400 MHz	1.3 volts	NA	Value Mobile PC
<a href="#">Mobile Intel® Celeron® Processor</a>	2.50 GHz 2.40 GHz 2.20 GHz 2 GHz 1.80 GHz 1.70 GHz 1.60 GHz 1.26 GHz	Sep-02	0.13-micron			256 KB L2 Cache	400 MHz	1.3 volts	NA	Value Mobile PC
<a href="#">Mobile Intel® Celeron® Processor</a>	1.50 GHz 1.40 GHz 1.33 GHz	<u>Jun-02</u>	0.13-micron			256 KB and 128 KB L2 Cache	400 MHz and	1.4 volts	NA	Value Mobile PC

							133 MHz			
<a href="#">Mobile Intel® Celeron® Processor</a>	1 GHz	Apr-02	0.13-micron			256 KB L2 Cache	133 MHz	1.4 volts	NA	Value Mobile PC
<a href="#">Mobile Intel® Celeron® Processor</a>	1.20 GHz 1.13 GHz 1.06 GHz	Jan-02	0.13-micron			256 KB L2 Cache	133 MHz	1.45 volts	NA	Value Mobile PC
<a href="#">Mobile Intel® Celeron® Processor</a>	850 MHz 800 MHz 750 MHz 700 MHz 650 MHz 600 MHz 550 MHz 500 MHz 450 MHz	Feb-00	0.18-micron			128 KB L2 Cache	100 MHz	1.6 volts	NA	Value Mobile PC
<a href="#">Mobile Intel® Celeron® Processor</a>	466 MHz 433 MHz	Sep-99	0.25-micron	18.9 million		128 KB L2 Cache		1.9 volts	NA	Value Mobile PC
<a href="#">Mobile Intel® Celeron® Processor</a>	400 MHz	Jun-99	0.25-micron	18.9 million		128 KB L2 Cache		1.6 volts	NA	Value Mobile PC
<a href="#">Mobile Intel® Celeron® Processor</a>	366 MHz	May-99	0.25-micron	18.9 million		128 KB L2 Cache		1.6 volts	NA	Value Mobile PC
<a href="#">Mobile Intel®</a>	333 MHz	Apr-99	0.25-micron<	18.9 million		128 KB L2 Cache		1.6 volts	NA	

<a href="#">Celeron® Processor</a>									Value Mobile PC
<a href="#">Mobile Intel® Celeron® Processor</a>	266 MHz 333 MHz	Jan-99	0.25-micron	18.9 million		128 KB L2 Cache	1.6 volts	NA	Value Mobile PC

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### Intel® Pentium® III Xeon™ Processor

Processor	Clock Speed(s)	Intro Date(s)	Mfg. Processs	Transistors	Cache	Addressable Memory	Bus Speed	Typical Use
Intel® Pentium® III Xeon™ Processor	900 MHz	Mar-01	0.18-micron	28 million	2 MB Advanced Transfer L2 Cache	64 GB	100 MHz	High-end servers, 4- and 8-way multiprocessing systems
Intel® Pentium® III Xeon™ Processor	933 MHz	May-00	0.18-micron	28 million	256 KB Advanced Transfer L2 Cache	64 GB	133 MHz	Business and consumer PCs, 1- and 2-way servers and workstations
Intel® Pentium® III Xeon™ Processor	700 MHz	May-00	0.18-micron	28 million	1 MB and 2 MB Advanced Transfer L2 Cache	64 GB	100 MHz	4- and 8-way servers
Intel® Pentium® III Xeon™ Processor	866 MHz 800 MHz 733 MHz 667 MHz 600 MHz	Oct-99	0.18-micron	28 million	256 KB Advanced Transfer L2 Cache	64 GB	133 MHz	2-way servers and workstations

Intel® Pentium® III Xeon™ Processor	550 - 500 MHz	Mar-99	0.25-micron	9.5 million	512 KB, 1 MB and 2 MB L2 Cache	64 GB	100 MHz	Business PCs, 2-, 4- and 8-way (and higher) servers and workstations
Intel® Pentium® III Xeon™ Processor	1 GHz - 600 MHz	Oct-99	0.18-micron	28 million	256 kB, 512 kB, 1 MB and 2 MB L2 Cache	64 GB	133 MHz 100 MHz	2-way servers and workstations

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### Intel® Pentium® II Xeon™ Processor

Processor	Clock Speed(s)	Intro Date(s)	Mfg. Process	Transistors	Cache	Addressable Memory	Bus Speed	Typical Use
Intel® Pentium® II Xeon™ Processor	450 MHz	Jan-99	0.25-micron	7.5 million	512 KB 1 MB 2 MB	64 GB	100 MHz	4-way servers and workstations
Intel® Pentium® II Xeon™ Processor	450 MHz	Oct-98	0.25-micron	7.5 million	512 KB	64 GB	100 MHz	Dual-processor servers and workstations
Intel® Pentium® II Xeon™ Processor	450-400 MHz	Jun-98	0.25-micron	7.5 million	512 KB, 1 MB and 2 MB L2 Cache	64 GB	100 MHz	Midrange and higher servers and workstations

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**Intel® Pentium® II Processor**

<i>Desktop</i>								
Processor	Clock Speed(s)	Intro Date(s)	Mfg. Process	Transistors	Cache	Adderssable Memory	Bus Speed	Typical Use
Intel® Pentium® II Processor	300 - 233 MHz	May-97	0.35 micron	7.5 million	512 kB L2 Cache	64 GB	66 MHz	High-end business desktops, workstations and servers
Intel® Pentium® II Processor	450-333 MHz	Jan-98	0.25 micron	7.5 million	512 kB L2 Cache	64 GB	100 MHz 66 MHz	High-end business desktops, workstations and servers
Intel® Pentium® II Notebook Processor	300-233 MHz	Apr-98	0.25 micron	7.5 million	512 kB L2 Cache	64 GB	66 MHz	Mobile PC
Intel® Pentium® II Notebook Processor	400-266 MHz	Jan-99	0.25 and 0.18 micron	27.4 million	256 kB L2 Cache	64 GB	100 MHz 66 MHz	Mobile PC
Intel® Pentium® II Processor	450 MHz	Aug-98	0.25-micron	7.5 million	512 KB	100 MHz		Business and consumer PCs; 1- and 2-way servers and workstations.
Intel® Pentium® II Processor	400 MHz 350 MHz	Apr-98	0.25-micron	7.5 million	512 KB	100 MHz		Business and consumer PCs; 1- and 2-way servers and workstations.
Intel® Pentium® II Processor	333 MHz	Jan-98	0.25-micronM	7.5 million	512 KB	66 MHz		Business and consumer PCs; 1-



								and 2-way servers and workstations.
Intel® Pentium® II Processor	300 MHz 266 MHz 233 MHz	May-97	0.35-micron	7.5 million	512 KB			High-end business desktops, workstations and servers.

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<i>Mobile</i>								
Processor	Clock Speed(s)	Intro Date(s)	Mfg. Process/ Transistors	Cache	Bus Speed	Core Voltage	Wattage	Typical Use
Intel® Mobile Pentium® II Processor	400 MHz	June 14, 1999	0.18-micron 27.4 million	256 KB		1.5 volts	7.5 watts	Mobile PC
Intel® Mobile Pentium® II Processor	400 MHz	June 14, 1999	0.25-micron 27.4 million	256 KB		1.55 volts	8.7 watts	Mobile PC
Intel® Mobile Pentium® II Processor	366 MHz 333 MHz 300 MHz 266 MHz	Jan. 25, 1999	0.25-micron 27.4 million	256 KB		1.6 volts	9.5 watts	Mobile PC
Intel® Mobile Pentium® II Processor	300 MHz	Sept. 9, 1998	0.25-micron 7.5 million	512 KB		1.6 volts	9.0 watts	Mobile PC
Intel® Mobile Pentium® II Processor	266 MHz 233 MHz	Apr. 2, 1998	0.25-micron 7.5 million	512 KB		1.7 volts	8.6 and 7.5 watts	Mobile PC

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**Intel® Pentium® Pro Processor**

Processor	Clock Speed(s)	Intro Date(s)	Mfg. Process/ Transistors	Cache	Bus Speed	Typical Use
Intel® Pentium® Pro Processor	200 - 150 MHz	November, 1995	0.6 and 0.35 micron 5.5 million	256 kB, 512 kB and 1 MB L2 Cache	66 MHz 60 MHz	High-end desktops, workstations and servers
Intel® Pentium® Pro Processor	200 MHz 180 MHz	January, 1996	0.35-micron 5.5 million	256KB 512KB 1MB L2	66 MHz	High-end desktops, workstations and servers.
Intel® Pentium® Pro Processor	200 MHz 180 MHz 166 MHz 150 MHz	Nov. 1, 1995	0.6-micron 5.5 million	256 KB 512 KB L2	66 MHz	High-end desktops, workstations and servers.

[Back to top](#)**Intel® Pentium® Processor Family**

<i>Desktop</i>								
Processor	Clock Speed(s)	Intro Date(s)	Mfg. Process	Transistors	Cache	Adderssable Memory	Bus Speed	Typical Use
Intel® Pentium® Processor	66 MHz 60 MHz	Mar-93	0.8 micron	3.1 million	8 kB L1 Cache	4 GB	66 MHz 60 MHz	Desktops
	200-75 MHz	Mar-94		3.3 million		4 GB		Desktops

Intel® Pentium® Processor			0.6 and 0.35 micron		8 kB L1 Cache		66 MHz 60 MHz 50	
Intel® Pentium® Processor with MMX™ Technology	233 - 166 MHz	Oct-96	0.35 micron	4.5 million	16 kB L1 Cache	4 GB	66 MHz	High performance desktops and servers
Intel® Pentium® Notebook Processor with MMX™ Technology	300 - 200 MHz	Sep-97	0.25 micron	4.5 million	16 kB L1 Cache	4 GB	66 MHz 60 MHz	Mobile PC and mini-notebooks
Intel® Pentium® Notebook Processor Extreme Edition 840	3.20 GHz	Apr-05	90nm	230 million	2 MB	64 GB	800 MHz	High-performance desktop
Intel® Pentium® Processor Extreme Edition 840	3.20 GHz	Jan-06	65nm	376 million	4 MB	64 GB	1066 MHz	High-performance desktop
Intel® Pentium® Processor Extreme Edition 955	3.46 GHz	Jan-06	65nm	376 million	4 MB	64 GB	1066 MHz	High-performance desktop
Intel® Pentium® Processor	3.73 GHz	Jan-06	65nm	376 million	4 MB	64 GB	1066 MHz	High-performance desktop

Extreme Edition 965								
Intel® Pentium® Dual Core processor E2160	1.80 GHz	Jun-07	65nm	176 million	1 MB	64 GB	800 MHz	Desktop PC
Pentium® Dual Core processor E2140	1.60 GHz	Jun-07	65nm	176 million	1 MB	64 GB	800 MHz	Desktop PC
Pentium® Dual Core processor T2130	1.60 GHz	Jul-07	65nm	176 million	1 MB	64 GB	800 MHz	Mobile PC
Pentium® Dual Core processor T2080	1.73 GHz	Apr-07	65nm	176 million	1 MB	64 GB	533 MHz	Mobile PC
Pentium® Dual Core processor T2060	1.60 GHz	Jan-07	65nm	176 million	1 MB	64 GB	533 MHz	Mobile PC
Intel® Pentium® Processor with MMX™ Technology	233 MHz	Jun-97	0.35-micron	4.5 million				High-performance desktop and servers
Intel® Pentium® Processor with MMX™ Technology	200 MHz 166 MHz	Oct. xx, 1996	0.35-micron	4.5 million				High-performance desktop and servers

Intel® Pentium® Processor	200 MHz	June 10, 1996	0.35-micron	3.3 million				High-performance desktop and servers
Intel® Pentium® Processor	166 MHz 150 MHz	Jan. 4, 1996	0.35-micron	3.3 million				High-performance desktop and servers
Intel® Pentium® Processor	133 MHz	June 1995	0.35-micron	3.3 million				High-performance desktop and servers
Intel® Pentium® Processor	120 MHz	Mar. 27, 1995	0.6-micron 0.35-micron	3.3 million				Desktops and notebooks
Intel® Pentium® Processor	100 MHz 90 MHz	Mar. 7, 1994	0.6-micron	3.3 million				Desktops
Intel® Pentium® Processor	75 MHz	Oct. 10, 1994	0.6-micron	3.3 million				Desktops and notebooks
Intel® Pentium® Processor	66 MHz 60 MHz	Mar. 22, 1993	0.8-micron	3.1 million				Desktops

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<i>Mobile</i>				
Processor	Clock Speed(s)	Intro Date(s)	Mfg. Process/ Transistors	Typical Use
	300 MHz	Jan. 7, 1999		

Intel® Pentium® Processor with MMX™ Technology			0.25-micron 4.5 million	Mobile PC and mini-notebooks
Intel® Pentium® Processor with MMX™ Technology	266 MHz	Jan. 12, 1998	0.25-micron 4.5 million	Mobile PC and mini-notebooks
Intel® Pentium® Processor with MMX™ Technology	233 MHz 200 MHz	Sept. 9, 1997	0.25-micron 4.5 million	Mobile PC and mini-notebooks

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### Intel486™ Processors and Earlier

Processor	Clock Speed(s)	Intro Date(s)	Mfg. Process/ Transistors	Transistors	Addressable Memory	Cache	Bus Speed	Typical Use
Intel486™ SL Processor	33 MHz 25 MHz 20 MHz	Nov-92	0.8-micron	1.4 million	4 MB	8 kB	33 MHz 25 MHz 20 MHz	First CPU specifically designed for Notebook PCs
IntelDX4™ Processor	100 MHz 75 MHz	Mar-94	0.6-micron	1.6 million	4 GB	16 kB	33 MHz 24 MHz	High-performance, entry-level desktops and value notebooks
IntelDX2™ Processor	66 MHz 50 MHz 40 MHz	Mar-92	0.8-micron	1.2 million	4 GB	8 kB	33 MHz 25 MHz 20 MHz	High-performance, low-cost desktops
Intel486™ SX Processor	33 MHz 25 MHz 20 MHz 16 MHz	Sept-91	1 micron 0.8-micron	1.2 million 900,000	4 GB	8 kB	33 MHz 25 MHz 20 MHz 16 MHz	Low-cost, entry-level desktops
		Oct-90	1-micron	855,000	4 GB	None		

Intel386™ SL Processor	25 MHz 20 MHz						25 MHz 20 MHz	First CPU designed specifically for portables
Intel486™ DX Processor	50 MHz 33 MHz 25 MHz	Apr-89	1-micron 0.8-micron	1.2 million	4 GB	8 kB	50 MHz 33 MHz 25 MHz	Desktops and servers.
Intel386™ SX Processor	33 MHz 25 MHz 20 MHz 16 MHz	Jun-88	1.5-micron	275,000	16 MB	None	33 MHz 25 MHz 20 MHz 16 MHz	Entry-level desktop and portable computing
Intel386™ DX Processor	33 MHz 25 MHz 20 MHz 16 MHz	Oct-85	1.5 micron 1-micron	275,000	4 GB	None	33 MHz 25 MHz 20 MHz 16 MHz	Desktops
80286	12 MHz 10 MHz 6 MHz	Feb-82	1.5-micron	134,000	16 MB	None	12 MHz 10 MHz 6 MHz	Desktops (standard CPU for all IBM PCs clones at the time)
8088	8 MHz 4.77 MHz	Jun-79	3-micron	29,000	64 kB	None	8 MHz 4.77 MHz	Desktops (standard CPU for all IBM PCs and PC clones at the time)
8086	10 MHz 8 MHz 4.77 MHz	Jun-78	3-micron	29,000	1 MB	None	10 MHz 8 MHz 4.77 MHz	Portable computing
8085	2 MHz	Mar-76	3-micron	6,500	64 KB	None	2 MHz	Toledo scale. Computed cost from weight and price. High level of integration, operating for first time on a single 5-volt power supply (down from 12 volts).
8080	2 MHz	Apr-74	6-micron	6,000	64 KB	None	2 MHz	Traffic light controller, Altair computer (first PC).
8008	200 KHz	Apr-72	10-micron	3,500	16 KB	None	200 KHz	Dumb terminals, general calculators, bottling

								machines, data/character manipulation
4004	108 KHz	Nov-71	10-micron	2,300	640 Bytes	None	108 KHz	Busicom calculator, arithmetic manipulation

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