

# TDHS0008 - Upgrade Path for Presario CPU's

## Summary

When attempting to upgrade the CPU (Central Processing Unit) on a Compaq Presario computer the documentation may not clearly state the maximum CPU speed available.

## Introduction

Speeds of upgrade CPU's can vary widely from system to system and can be very confusing. This document will show the default CPU speed for each model and the maximum upgradeable CPU for each unit. This article covers all Compaq Presario desktops from the 2200 to the most current release. The CPU Maximum listed is only for the highest upgrade for a particular unit and does not list the step ups for the units. Please refer to Intel's or AMD's web site for information on all CPU speeds available for each architecture.

## Information

There are many factors that need to be taken into consideration when upgrading the CPU on a motherboard. Variables such as the Chipset support, motherboard type, BIOS version and socket type must all be taken into consideration when attempting to upgrade a CPU.

A chipset is designed to work with a specific set of processors in mind. The reason for this is simple: the design of the control circuitry must be different for each of these processor families due to the different ways they employ cache, access memory, etc.

When a computer is first released the BIOS version only supports processors that are on the market at that time. As newer and faster processors are released the BIOS needs to be upgraded to add support for the new processors. A BIOS upgrade may be required for the motherboard to do proper voltage identification for newer boards that support chips with lower core voltages.

Each family of processor uses a particular architecture of slot/socket. There are far too many types to list here. Below are several examples of compatibilities and incompatibilities.

- Some families such as the Celeron Coppermine and Pentium3 use the same socket (370) and are compatible when upgrading.
- Slot1 Celeron Mendocino and the Pentium2 Klamath and Deschutes are compatible but neither of these are compatible with the Celeron and Pentium Coppermines.
- AMD Athlon and Duron CPU's also have several different architectures within a particular family that are not compatible with each other.
- Intel slots/sockets are not compatible with AMD slots/sockets as the architectures are different and the CPU's run at different voltages.

This being said you can see why upgrading a CPU is not a clear cut process. The chart below take all the factors into consideration and provides you with a clear upgrade path for each unit.

**\*Note:** To search this table press **CTRL+F** and enter the model number.

### Upgrade Chart

Model#	Default CPU Speed in MHz	Maximum CPU Speed in MHz
2200	180 MHz Media GX	180 MHz Media GX
2240	200 MHz AMD K6	200 MHz AMD K6
2246	233 MHz AMD K6	233 MHz AMD K6
2254	266 MHz AMD K6	300 MHz AMD K6
2255	300 MHz AMD K6	300 MHz AMD K6
2256	300 MHz AMD K6	300 MHz AMD K6
2264	233 MHz M-II	333 AMD K6-2
2266	233 MHz M-II	333 AMD K6-2
2275	233 MHz AMD K6-2	333 AMD K6-2
2281	233 MHz M-II	333 AMD K6-2
2285	233 MHz M-II	333 AMD K6-2
2286	233 MHz M-II	333 AMD K6-2
2294	350 MHz AMD K6-2	350 MHz AMD K6-2
2510	300 MHz AMD K6-2	300 MHz AMD K6
3550	500 MHz Intel Celeron	533 MHz Intel Celeron
3555	500 MHz Intel PIII	600 MHz Intel PIII
4090	900 MHz AMD Duron	1300 MHz AMD Athlon
4626	266 MHz Intel PII (Slot 1)	333 MHz Intel PII (Slot 1)
4640	266 MHz Intel PII (Slot 1)	333 MHz Intel PII (Slot 1)
4660	300 MHz Intel PII (Slot 1)	333 MHz Intel PII (Slot 1)
4665	300 MHz Intel PII (Slot 1)	333 MHz Intel PII (Slot 1)
4808	200 MHz Intel Pentium MMX	233 MHz Intel Pentium MMX
4814	233 MHz Intel Pentium MMX	233 MHz Intel Pentium MMX
4816	233 MHz Intel Pentium MMX	233 MHz Intel Pentium MMX
4824	233 MHz Intel PII (Slot 1)	266 MHz Intel PII (Slot 1)
4834	266 MHz Intel PII (Slot 1)	266 MHz Intel PII (Slot 1)
4840	266 MHz Intel PII (Slot 1)	333 MHz Intel PII (Slot 1)
4850	300 MHz Intel PII (Slot 1)	333 MHz Intel PII (Slot 1)
4860	333 MHz Intel PII (Slot 1)	333 MHz Intel PII (Slot 1)
4862	333 MHz Intel PII (Slot 1)	333 MHz Intel PII (Slot 1)
4880	400 MHz Intel PII (Slot 1)	450 MHz Intel PII (Slot 1)
4882	400 MHz Intel PII (Slot 1)	500 MHz Intel PII (Slot 1)
4910	233 MHz AMD K6	366 MHz AMD K6
5000CA	800 MHz AMD Duron	1400 MHz AMD Athlon
5000US	750 MHz AMD Duron	1400 MHz AMD Athlon
5001CA	850 MHz AMD Duron	1400 MHz AMD Athlon
5001CL	800 MHz AMD Duron	1400 MHz AMD Athlon
5001R	750 MHz AMD Duron	1400 MHz AMD Athlon
5001SR	800 MHz AMD Duron	1400 MHz AMD Athlon
5002CA	850 MHz AMD Duron	1400 MHz AMD Athlon
5002US	800 MHz AMD Duron	1400 MHz AMD Athlon
5003CA	800 MHz AMD Duron	1400 MHz AMD Athlon

<b>Model#</b>	<b>Default CPU Speed in MHz</b>	<b>Maximum CPU Speed in MHz</b>
5003R	800 MHz AMD Duron	1400 MHz AMD Athlon
5003US	933 MHz Intel PIII	1100 MHz Intel PIII
5004CA	950 MHz AMD Athlon	1400 MHz AMD Athlon
5004CL	1000 MHz AMD Athlon	1400 MHz AMD Athlon
5004US	1100 MHz AMD Athlon	1400 MHz AMD Athlon
5005CL	1100 MHz AMD Athlon	1400 MHz AMD Athlon
5005R	1100 MHz AMD Athlon	1400 MHz AMD Athlon
5005SR	933 MHz Intel PIII	1100 MHz Intel PIII
5006CA	1100 MHz AMD Athlon	1400 MHz AMD Athlon
5006CL1	1100 MHz AMD Athlon	1400 MHz AMD Athlon
5006H	850 MHz AMD Duron	1400 MHz AMD Athlon
5006US	766 MHz Intel Celeron	1100 MHz Intel PIII
5007CL	850 MHz AMD Duron	1400 MHz AMD Athlon
5007R	800 MHz AMD Duron	1400 MHz AMD Athlon
5007SR	850 MHz AMD Duron	1400 MHz AMD Athlon
5007US	766 MHz Intel Celeron	1100 MHz Intel PIII
5008CA	800 MHz AMD Duron	1400 MHz AMD Athlon
5008SR	933 MHz Intel PIII	1100 MHz Intel PIII
5008US	800 MHz Intel Celeron	1100 MHz Intel PIII
5009CL	1000 MHz Intel PIII	1100 MHz Intel PIII
5009R	900 MHz AMD Athlon	1400 MHz AMD Athlon
5009SR	1000 MHz Intel PIII	1100 MHz Intel PIII
5010	266 MHz Intel Celeron	333 MHz PII or Celeron
5010CA	900 MHz AMD Duron	1400 MHz AMD Athlon
5010US	866 MHz Intel PIII	1100 MHz Intel PIII
5011CL	1200 MHz AMD Athlon	1400 MHz AMD Athlon
5011R	1100 MHz AMD Athlon	1400 MHz AMD Athlon
5012CA	1000 MHz AMD Athlon	1400 MHz AMD Athlon
5012US	1000 MHz Intel PIII	1100 MHz Intel PIII
5014US	1200 MHz AMD Athlon	1400 MHz AMD Athlon
5015	266 MHz Intel Celeron	333 MHz Intel PII or Celeron
5020	300 MHz Intel Celeron	333 MHz Intel PII or Celeron
5027	300 MHz Intel Celeron	333 MHz Intel PII or Celeron
5030	300 MHz Intel PII (Slot 1)	333 MHz Intel PII or Celeron
5032	300 MHz Intel PII (Slot 1)	333 MHz Intel PII or Celeron
5035	300 MHz Intel PII (Slot 1)	333 MHz Intel PII or Celeron
5037	300 MHz Intel PII (Slot 1)	333 MHz Intel PII or Celeron
5050	333 MHz Intel Celeron	533 MHz Intel Celeron
5062	333 MHz AMD K6-2	550 MHz AMD K6-2
5070	350 MHz AMD K6-2	550 MHz AMD K6-2
5080US	800 MHz Intel Celeron	1100 MHz Intel PIII
5100US	850 MHz Intel Celeron	1100 MHz Intel PIII
5101RSH	900 MHz AMD Duron	1400 MHz AMD Athlon
5102CA	900 MHz AMD Duron	1400 MHz AMD Athlon
5102US	1000 MHz AMD Athlon	1400 MHz AMD Athlon
5103CL	1100 MHz AMD Athlon	1400 MHz AMD Athlon
5104US	1000 MHz Intel PIII	1100 MHz Intel PIII
5105RSH	1100 MHz AMD Athlon	1400 MHz AMD Athlon
5106CA	1200 MHz AMD Athlon	1400 MHz AMD Athlon
5106CL	1200 MHz AMD Athlon	1400 MHz AMD Athlon
5107US	1000 MHz Intel PIII	1100 MHz Intel PIII
5108US	1200 MHz AMD Athlon	1400 MHz AMD Athlon
5109RSH	1200 MHz AMD Athlon	1400 MHz AMD Athlon
5123SR	1000 MHz AMD Athlon	1400 MHz AMD Athlon
5127SR	1000 MHz Intel PIII	1100 MHz Intel PIII
5137	350 MHz Intel PII (Slot 1)	500 MHz Intel PII (Slot 1)
5140	400 MHz Intel PII (Slot 1)	500 MHz Intel PII (Slot 1)
5147	400 MHz Intel PII (Slot 1)	500 MHz Intel PII (Slot 1)
5150	350 MHz AMD K6-2	550 MHz AMD K6-2
5151	350 MHz AMD K6-2	550 MHz AMD K6-2
5152	350 MHz AMD K6-2	550 MHz AMD K6-2
5155	350 MHz AMD K6-2	550 MHz AMD K6-2
5170	350 MHz Intel PII (Slot 1)	500 MHz Intel PII (Slot 1)
5177	350 MHz Intel PII (Slot 1)	500 MHz Intel PII (Slot 1)
5184	350 MHz AMD K6-2	550 MHz AMD K6-2
5185	380 MHz AMD K6-2	550 MHz AMD K6-2
5190	400 MHz AMD K6-2	550 MHz AMD K6-2
5192	450 MHz Intel PII (Slot 1)	500 MHz Intel PII (Slot 1)
5202	350 MHz AMD K6-2	550 MHz AMD K6-2
5204	350 MHz AMD K6-2	550 MHz AMD K6-2
5220	380 MHz AMD K6-2	550 MHz AMD K6-2
5222	380 MHz AMD K6-2	550 MHz AMD K6-2
5225	380 MHz AMD K6-2	550 MHz AMD K6-2
5240	400 MHz AMD K6-2	550 MHz AMD K6-2
5242	400 MHz AMD K6-2	550 MHz AMD K6-2
5245	400 MHz AMD K6-2	550 MHz AMD K6-2
5248	400 MHz AMD K6-2	550 MHz AMD K6-2
5250	400 MHz AMD K6-2	550 MHz AMD K6-2
5270	450 MHz Intel PII (Slot 1)	500 MHz PII (Slot 1)

Model#	Default CPU Speed in MHz	Maximum CPU Speed in MHz
5280	433 MHz Intel Celeron	500 MHz Intel Celeron
5282	450 MHz AMD K6-2	500 MHz AMD K6-2
5284	450 MHz AMD K6-2	500 MHz AMD K6-2
5285	450 MHz AMD K6-2	500 MHz AMD K6-2
5301	380 MHz AMD K6-2	550 MHz AMD K6-2
5304	366 MHz M-II	550 MHz AMD K6-2
5330	380 MHz AMD K6-2	475 MHz AMD K6-2
5340	400 MHz AMD K6-2	475 MHz AMD K6-2
5345	400 MHz AMD K6-2	475 MHz AMD K6-2
5352	433 MHz Intel Celeron	533 MHz Intel Celeron
5360	450 MHz AMD K6-2	475 MHz AMD K6-2
5365	450 MHz AMD K6-2	475 MHz AMD K6-2
5410	380 MHz AMD K6-2	550 MHz AMD K6-2
5440	450 MHz AMD K6-2	550 MHz AMD K6-2
5441	475 MHz AMD K6-2	550 MHz AMD K6-2
5447	450 MHz AMD K6-2	550 MHz AMD K6-2
5451	500 MHz AMD K6-2	550 MHz AMD K6-2
5452	466 MHz Intel Celeron	533 MHz Intel Celeron
5457	475 MHz AMD K6-2	550 MHz AMD K6-2
5460	475 MHz AMD K6-2	550 MHz AMD K6-2
5461	500 MHz AMD K6-2	550 MHz AMD K6-2
5465	475 MHz AMD K6-2	550 MHz AMD K6-2
5475	500 MHz Intel Celeron	533 MHz Intel Celeron
5477	500 MHz Intel Celeron	533 MHz Intel Celeron
5610	350 MHz Intel PII (Slot 1)	500 MHz Intel PII (Slot 1)
5612	350 MHz Intel PII (Slot 1)	500 MHz Intel PII (Slot 1)
5630	400 MHz Intel PII (Slot 1)	500 MHz Intel PII (Slot 1)
5635	400 MHz Intel PII (Slot 1)	500 MHz Intel PII (Slot 1)
5660	450 MHz Intel PII (Slot 1)	500 MHz Intel PII (Slot 1)
5665	450 MHz Intel PII (Slot 1)	500 MHz Intel PII (Slot 1)
5670	450 MHz Intel PII (Slot 1)	500 MHz Intel PII (Slot 1)
5677	450 MHz Intel PII (Slot 1)	500 MHz Intel PII (Slot 1)
5686	450 MHz Intel PIII (Slot 1)	500 MHz Intel PIII (Slot 1)
5690	500 MHz Intel PIII (Slot 1)	500 MHz Intel PIII (Slot 1)
5695	500 MHz Intel PIII (Slot 1)	500 MHz Intel PIII (Slot 1)
5697	500 MHz Intel PIII (Slot 1)	500 MHz Intel PIII (Slot 1)
5710	450 MHz AMD K6-2	550 MHz AMD K6-2
5711	466 MHz Intel Celeron	533 MHz Intel Celeron
5712	466 MHz Intel Celeron	533 MHz Intel Celeron
5714	466 MHz Intel Celeron	533 MHz Intel Celeron
5715	466 MHz Intel Celeron	533 MHz Intel Celeron
5716	450 MHz Intel PIII (Slot 1)	550 MHz Intel PIII (Slot 1)
5717	450 MHz Intel PIII (Slot 1)	550 MHz Intel PIII (Slot 1)
5721	500 MHz Intel Celeron	533 MHz Intel Celeron
5722	500 MHz Intel PIII (Slot 1)	550 MHz Intel PIII (Slot 1)
5724	500 MHz Intel Celeron	533 MHz Intel Celeron
5725	450 MHz Intel PIII (Slot 1)	600 MHz Intel PIII (Slot 1)
5726	500 MHz Intel PIII (Slot 1)	600 MHz Intel PIII (Slot 1)
5735	550 MHz Intel PIII (Slot 1)	600 MHz Intel PIII (Slot 1)
5736	550 MHz Intel PIII (Slot 1)	600 MHz Intel PIII (Slot 1)
5738	550 MHz Intel PIII (Slot 1)	600 MHz Intel PIII (Slot 1)
5745	600 MHz Intel PIII (Slot 1)	600 MHz Intel PIII (Slot 1)
5822	500 MHz Intel Celeron (Slot 1)	533 MHz Intel Celeron (Slot 1)
5827	500 MHz Intel Celeron (Slot 1)	533 MHz Intel Celeron (Slot 1)
5832	500 MHz Intel Celeron (Slot 1)	533 MHz Intel Celeron (Slot 1)
5834	500 MHz Intel Celeron (Slot 1)	533 MHz Intel Celeron (Slot 1)
5835	500 MHz Intel Celeron (Slot 1)	533 MHz Intel Celeron (Slot 1)
5837	500 MHz Athlon (K7)	1000 MHz Athlon (K75)
5838	500 MHz Athlon (K7)	1000 MHz Athlon (K75)
5852	550 MHz Intel PIII (Slot 1)	600 MHz Intel PIII (Slot 1)
5855	550 MHz Athlon (K7)	1000 MHz Athlon (K75)
5861	600 MHz Athlon (K7)	1000 MHz Athlon (K75)
5868	600 MHz Athlon (K7)	1000 MHz Athlon (K75)
5875	650 MHz Athlon (K7)	1000 MHz Athlon (K75)
5888	700 MHz Athlon (K7)	1000 MHz Athlon (K75)
5BW112	566 MHz Intel Celeron (Coppermine)	1133 MHz Intel PIII
5BW120	600 MHz Intel Celeron (Coppermine)	1133 MHz Intel PIII
5BW122	600 MHz Intel Celeron (Coppermine)	1133 MHz Intel PIII
5BW127	600 MHz Intel Celeron (Coppermine)	1133 MHz Intel PIII
5BW130	667 MHz Intel Celeron (Coppermine)	1133 MHz Intel PIII
5BW131	667 MHz Intel Celeron (Coppermine)	1133 MHz Intel PIII
5BW135	633 MHz Intel Celeron (Coppermine)	1133 MHz Intel PIII
5BW137	667 MHz Intel Celeron (Coppermine)	1133 MHz Intel PIII
5BW157	650 MHz Intel PIII	1133 MHz Intel PIII
5BW160	700 MHz Intel PIII	1133 MHz Intel PIII
5BW172	733 MHz Intel PIII	1133 MHz Intel PIII
5BW175	733 MHz Intel PIII	1133 MHz Intel PIII
5BW177	750 MHz Intel PIII	1133 MHz Intel PIII
5BW220	633 MHz Intel Celeron (Coppermine)	1133 MHz Intel PIII

<b>Model#</b>	<b>Default CPU Speed in MHz</b>	<b>Maximum CPU Speed in MHz</b>
5BW250	700 MHz Intel Celeron (Coppermine)	1133 MHz Intel PIII
5BW251	700 MHz Intel Celeron (Coppermine)	1133 MHz Intel PIII
5BW284	850 MHz Intel PIII	1133 MHz Intel PIII
5WV232	700 MHz AMD Duron	1400 MHz AMD Athlon
5WV252	750 MHz AMD Duron	1400 MHz AMD Athlon
5WV254	700 MHz AMD Duron	1400 MHz AMD Athlon
5WV257	700 MHz AMD Duron	1400 MHz AMD Athlon
5WV260	700 MHz AMD Duron	1400 MHz AMD Athlon
5WV261	750 MHz AMD Duron	1400 MHz AMD Athlon
5WV262	750 MHz AMD Duron	1400 MHz AMD Athlon
5WV270	750 MHz AMD Duron	1400 MHz AMD Athlon
5WV271	900 MHz AMD Athlon	1400 MHz AMD Athlon
5WV275	800 MHz AMD Athlon	1400 MHz AMD Athlon
5WV277	750 MHz AMD Duron	1400 MHz AMD Athlon
5WV280	900 MHz AMD Athlon	1400 MHz AMD Athlon
5WV282	900 MHz AMD Athlon	1400 MHz AMD Athlon
5WV285	900 MHz AMD Athlon	1400 MHz AMD Athlon
5WV294	1000 MHz AMD Athlon	1400 MHz AMD Athlon
5WV295	1000 MHz AMD Athlon	1400 MHz AMD Athlon
5WV296	850 MHz AMD Athlon	1400 MHz AMD Athlon
5WV297	950 MHz AMD Athlon	1400 MHz AMD Athlon
7000CA	1200 MHz AMD Athlon	1400 MHz AMD Athlon
7000US	1200 MHz AMD Athlon	1400 MHz AMD Athlon
7001CL	1200 MHz AMD Athlon	1400 MHz AMD Athlon
7002US	1300 MHz AMD Athlon	1400 MHz AMD Athlon
7003US	1300 MHz Intel P4	1800 MHz Intel P4
7006US	1700 MHz Intel P4	1800 MHz Intel P4
7110US	1300 MHz AMD Athlon	1400 MHz AMD Athlon
7118US	1300 MHz Intel P4	1800 MHz Intel P4
7120US	1500 MHz Intel P4	1800 MHz Intel P4
7126CL	1500 MHz Intel P4	1800 MHz Intel P4
7360	500 MHz AMD K6-2	550 MHz AMD K6-2
7370	500 MHz AMD K6-2	550 MHz AMD K6-2
7462	500 MHz AMD K6-2	550 MHz AMD K6-2
7465	533 MHz AMD K6-2	550 MHz AMD K6-2
7469	500 MHz AMD K6-2	550 MHz AMD K6-2
7470	533 MHz AMD K6-2	550 MHz AMD K6-2
7471	533 MHz AMD K6-2	550 MHz AMD K6-2
7475	533 MHz AMD K6-2	550 MHz AMD K6-2
7478	533 MHz AMD K6-2	550 MHz AMD K6-2
7479	533 MHz AMD K6-2	550 MHz AMD K6-2
7485	550 MHz AMD K6-2	550 MHz AMD K6-2
7587	550 MHz Intel PIII	1100 MHz Intel PIII
7588	550 MHz Intel PIII	1100 MHz Intel PIII
7594	566 MHz Intel Celeron	1100 MHz Intel PIII
7595	650 MHz Intel PIII	1100 MHz Intel PIII
7596	566 MHz Intel Celeron	1100 MHz Intel PIII
7597	600 MHz Intel PIII	1100 MHz Intel PIII
7598	600 MHz Intel PIII	1100 MHz Intel PIII
7599	700 MHz Intel PIII	1100 MHz Intel PIII
7885	700 MHz Intel PIII	1100 MHz Intel PIII
7895	800 MHz Intel PIII	1100 MHz Intel PIII
7922	533 MHz AMD K6-2	550 MHz AMD K6-2
7935	500 MHz AMD Athlon (K7)	1000 MHz AMD Athlon (K75)
7940	600 MHz AMD Athlon (K75)	1000 MHz AMD Athlon (K75)
7947	600 MHz AMD Athlon (K75)	1000 MHz AMD Athlon (K75)
7970	700 MHz AMD Athlon (K75)	1000 MHz AMD Athlon (K75)
7985	750 MHz AMD Athlon (K75)	1000 MHz AMD Athlon (K75)
7990	800 MHz AMD Athlon (K75)	1000 MHz AMD Athlon (K75)
7994	900 MHz AMD Athlon (K75)	1000 MHz AMD Athlon (K75)
7998	1000 MHz AMD Athlon (K75)	1000 MHz AMD Athlon (K75)
7AP134	750 MHz AMD Athlon	1000 MHz AMD Athlon
7AP135	750 MHz AMD Athlon	1000 MHz AMD Athlon
7AP140	800 MHz AMD Athlon	1000 MHz AMD Athlon
7AP170	900 MHz AMD Athlon	1000 MHz AMD Athlon
7AP190	1000 MHz AMD Athlon	1000 MHz AMD Athlon
7AP195	1000 MHz AMD Athlon	1000 MHz AMD Athlon
7EL137	800 MHz Intel PIII	1100 MHz Intel PIII
7EL147	800 MHz Intel PIII	1100 MHz Intel PIII
7PL270	1000 MHz AMD Athlon	1400 MHz AMD Athlon
7PL287	1000 MHz AMD Athlon	1400 MHz AMD Athlon
7PL290	1100 MHz AMD Athlon	1400 MHz AMD Athlon
7PL295	1100 MHz AMD Athlon	1400 MHz AMD Athlon
EZ 2200	500 MHz Intel Celeron	1100 MHz Intel PIII
EZ 2207	500 MHz Intel Celeron	1100 MHz Intel PIII
EZ 2600	633 MHz Intel Celeron	1100 MHz Intel PIII
EZ 2605	633 MHz Intel Celeron	1100 MHz Intel PIII
EZ 2700	550 MHz Intel PIII	1100 MHz Intel PIII

**References and Additional reading**

Intel - [www.intel.com](http://www.intel.com)

AMD - [www.amd.com](http://www.amd.com)

Processor Upgrading FAQ - [http://users.erols.com/chare/cpu\\_gen.htm](http://users.erols.com/chare/cpu_gen.htm)

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