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Revision History

Revision v38 2006–03–02

Added legal stuff, updated and enhanced revhistory, various improvements to the XML markup, general text editing, plenty of new entries and some corrections, and a new highest (6800.58), which is the real reason for a new update; added new section; added the translators' names; added a colofon; added birthdate of BogoMips (11 July 1993).

Revision v34 2003–08–07

__ Jubilee edition: ten years of existence of the BogoMips mini-Howto. Ratings have now reached new peaks over 6000 BogoMips

Revision somehow numbered 1.2 1999–11–12

Revision unnumbered publication. Probablye the first Linuxdoc SGML version. Highest just over 900

1999-02-08

Revision First publication

Late 1993

__ named BogoMips Information Sheet, well before the term Howto and mini-Howto were coined. Does anyone still have a copy of this text for me, please? Plain Ascii list.

The mini-howto text gives information about BogoMips, compiled from various sources such as news and e-mail. New BogoMips entries for the mini-Howto, notably for unlisted CPUs, will be highly appreciated. They can be sent by e-mail to the author Wim van Dorst

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1. Introduction

This text, initially started back in 1993 as BogoMips Information Sheet, is retrievable in the most up–to–date version from its homepage at www.clifton.nl, and from the various Linux archives.

Translations from this English version (by Wim van Dorst) are reported to be available in <u>Chinese</u>, <u>French</u> (by Antoine Levavasseur), <u>Hungarian</u> (by Daczi László), <u>Indonesian</u> (by Mohammad Damt), <u>Italian</u> (by <u>Federico Lucifredi</u>), <u>Russian</u> (by Mikhail Korepanov), <u>Spanish</u> (by Juan Carlos Durán García), <u>Slovak</u> (by <u>Filip Hroch</u>) and several other languages (German, Norwegian, Polish, Japanese, Portugese), unfortunately without details yet, all from the appropriate archives.

An explanatory <u>magazine article</u>, titled 'the Quintessential Linux Benchmark,' was published in the Linux Journal, vol 21, January 1996. The BogoMips is also explained in <u>the Jargon File</u> and <u>the Wikipedia</u>.

New mini–Howto entries for unlisted CPUs will be highly appreciated. They can be sent by <u>e-mail to the author Wim van Dorst</u>

1.1. Colofon

This mini-Howto is currently written in Docbook XML 4.4. Early versions of the mini-Howto, in the '90s, were in plain ASCII text. Then in the last year of the '90, it was converted to then current HTML 3.x, upgraded later to HTML 4, and in 2000 further upgraded to Linuxdoc SGML. Since version v37 in 2004, the full blown Docbook XML is used, with the Linux Document Project XSL stylesheets, to better fit in with the other mini-Howtos and Howtos.

There is only one tool to edit the various files, and that is vi, the renowned Unix text editor. XML to xhtml conversion tools include xmlto and the xsl-stylesheets of the TLDP. For the Clifton website these sames tools and stylesheets are used; the different look and feel comes from the Clifton CSS.

1. Introduction

2. The highest and lowest BogoMips ratings

The following are the highest and the lowest BogoMips ratings, as reported directly to me, or published on Usenet.

2.1. The highest single-CPU Linux boot sequence BogoMips value

- ♦ Michael Weiner, weinert@sys2.de
- ♦ Intel Xeon, at 3400 MHz
- ♦ 6800.58 BogoMips

2.2. The lowest Linux boot sequence BogoMips value

- ♦ Tim Van der Linden, timvdl@innet.be
- ♦ Intel 8088, at 4.77 MHz, ELKS
- ♦ 0.02 BogoMips

2.3. The highest dual core (SMP2, hypertreading) BogoMips value

- ♦ Brian Wheeler bdwheele@indiana.edu
- ♦ Hyperthreaded dual Xeon at 3060 MHz
- ♦ 24379.39 BogoMips

2.4. The highest multiple-CPU Linux boot sequence BogoMips value

- ◆ Dan Kirkpatrick, dkirk@physics.syr.edu
- ♦ 102 CPU Beowulf of Pentium IIIs, at 1000MHz
- ♦ 203862.30 BogoMips

2.5. The highest non-Linux BogoMips value

- ♦ omega@sequent.com
- ◆ Sequent Numa-Q, 32 Pentium CPUs at 180MHz
- ♦ Dynix operating system
- ♦ 3776.00 BogoMips

3. The frequently asked questions about BogoMips

Several authors have contributed to my knowledge of BogoMips. In this place, I would like to thank them highly.

3.1. What are BogoMips

Quoted from the Internet, origin unknown but brought to the attention by Eric S Raymond, *esr@thyrsus.com*, and Geoff Mackenzie, *freon@dialstart.net*, there is an humourously illustrative definition of BogoMips as "the number of million times per second a processor can do absolutely nothing."

On a more precise basis, from mail from Lars Wirzenius, wirzeniu@kruuna.Helsinki.FI, dated 9 September 1993, explaining BogoMips, with additional detailed information by Alessandro Rubini, rubini@morgana.systemy.it, and by howto-author Wim van Dorst:

`MIPS is short for Millions of Instructions Per Second. It is a measure for the computation speed of a program. Like most such measures, it is more often abused than used properly (it is very difficult to justly compare MIPS for different kinds of computers).

BogoMips are Linus's own invention. The linux kernel version 0.99.11 (dated 11 July 1993) needed a timing loop (the time is too short and/or needs to be too exact for a non-busy-loop method of waiting), which must be calibrated to the processor speed of the machine. Hence, the kernel measures at boot time how fast a certain kind of busy loop runs on a computer. "Bogo" comes from "bogus", i.e, something which is a fake. Hence, the BogoMips value gives some indication of the processor speed, but it is way too unscientific to be called anything but BogoMips.

The reasons (there are two) it is printed during boot—up is that a) it is slightly useful for debugging and for checking that the computers caches and turbo button work, and b) Linus loves to chuckle when he sees confused people on the news.'

BogoMips are being determined in /usr/src/linux/init/main.c (simple C algorithm, with a nice example of floating point arithmetic within the fully integer kernel), and the pertaining kernel variable <code>loops_per_sec</code> is used in several drivers for more serious purpose. The actual delay function udelay() is in assembler, and therefore each port has its own definition in /include/asm/delay.h. The <code>loops_per_sec</code> variable and the udelay() function are used in numerous drivers, see:

```
cd /usr/src/linux #or where else source is located
find . -name '*.[hcS]' -exec fgrep loops_per_sec {} /dev/null \;
find . -name '*.[hcS]' -exec fgrep udelay {} /dev/null \;
```

The BogoMips calculation loop for the non Intel CPUs is similar but not the same, because it is programmed in another assembler language. BogoMips is however the only portable way over the various CPUs (Intel-type and non Intel-type) for getting an indication of the CPU speed. Even CPU clock speed is not available on all CPUs.

3.2. How to estimate what the proper BogoMips rating should be

From a initiative by Ian Jackson, *ijackson@nyx.cs.du.edu*, and Przemek Klosowski, then with just three or four entries, much updated and expanded by howto–author Wim van Dorst for current data, as listed below:

As a very approximate guide, the BogoMips can be calculated by:

System	BogoMips	Comparison
Intel 8088	clock * 0.004	0.02
Intel/AMD 386SX	clock * 0.14	0.8
Intel/AMD 386DX	clock * 0.18	1 (definition)
Motorola 68030	clock * 0.25	1.4
Cyrix/IBM 486	clock * 0.34	1.8
Intel Pentium	clock * 0.40	2.2
Intel 486	clock * 0.50	2.8
AMD 5x86	clock * 0.50	2.8
Mips R4000/R4400	clock * 0.50	2.8
Motorola 68040	clock * 0.67	3.7
PowerPC 603	clock * 0.67	3.7
Intel StrongArm	clock * 0.66	3.7
-	clock * 0.75	4.2
Nexgen Nx586	clock * 0.75	
PowerPC 601	CIOCK ^ U.84	4.7
Alpha 21064/21064A	clock * 0.99	5.5
Alpha 21066/21066A	clock * 0.99	5.5
Alpha 21164/21164A	clock * 0.99	5.5
Intel Pentium Pro	clock * 0.99	5.5
Cyrix 5x86/6x86	clock * 1.00	5.6
-		5.6
Intel Pentium II/III	clock * 1.00	
AMD K7/Athlon	clock * 1.00	5.6
Intel Celeron	clock * 1.00	5.6
Intel Itanium	clock * 1.00	5.6
Mips R4600	clock * 1.00	5.6
Intel Itanium 2	clock * 1.49	8.3
Alpha 21264	clock * 1.99	11.1
Centaur VIA	clock * 1.99	11.1
AMD K5/K6/K6-2/K6-III	clock * 2.00	11.1
AMD Athlon XP/Athlon 64	clock * 2.00	11.1
AMD Duron/Opteron	clock * 2.00	11.1
UltraSparc II	clock * 2.00	11.1
Pentium MMX	clock * 2.00	11.1
Pentium 4	clock * 2.00	11.1
Centaur C6-2	clock * 2.00	11.1
PowerPC 604/604e/750	clock * 2.00	11.1
Motorola 68060	clock * 2.01	11.2
<pre>Intel Xeon (hyperthreading)</pre>	clock * 3.97	22.1
Hitachi SH-4	not enough data	(vot)
IBM S390	not enough data	
Intel ARM		-
THICET WILL	not enough data	(yec)

Note that the BogoMips calculation loop does not take full advantage of the parallelism of various processors, such as the Intel Pentium and the Alpha 21164. Also read the section on 'New BogoMips algorithm?' below, since for some of these CPUs recent kernels may give different data.

3.3. How to determine what the current BogoMips rating is

There are three methods to determine the current BogoMips, viz.

- 1. looking in /proc/cpuinfo, e.g., with `cat /proc/cpuinfo`. This method is highly preferred above the alternatives.
- 2. looking in the syslog output to see what was printed there during booting. If you're lucky the information may still be on the booting virtual console (if necessary, switch to it with the Alt–F1 key combination), otherwise you can retrieve the information explicitly with dmesg or syslogk. This alternative gives accurate information but is more work.
- 3. using the standalone bogomips program. This is only recommended for non–Linux system, for reasons pointed out below.

A non-determinative alternative, which is also applicable for non-Linux systems such as Crays, Palm PDAs, DOS, and similar, may be a standalone BogoMips program. Some versions are currently available, viz., by Darrick Wong, <code>djwong@thibs.menloschool.org</code>, and by Philip Snowdon, <code>philips@users.sf.net</code>. Jeff Tranter, <code>jeff_tranter@mitel.com</code> was the original author. From his readme file:

Tired of rebooting your system so you can see how many BogoMips it's running at today? [...] "Bogomips" is a standalone program that displays your system performance using one of the world's most recognized benchmarks. It uses the same code that is used in the Linux kernel while booting, but runs as a user program. [...] Version 1.3 of BogoMips is now portable and should run on any system that supports an ANSI C compiler and library.'

Note that due to system load values calculated with a standalone program on Linux systems may be quite different from registered in the list below. Intrinsically a standalone program cannot give precisely similar information to the boot sequence BogoMips, since system load will compete with the program run by an ordinary user. Therefore only boot sequence BogoMips ratings are listed below.

Be aware that Jeff's original file on sunsite.unc.edu, named

/pub/Linux/system/status/bogo-1.2.tar.gz, internally designated version 1.3, is rather outdated. Therefore, check out Darrick's program on

http://thibs.menloschool.org/~djwong/programs/bogomips/, if still reachable. He even has a MSW*nd*ws binary version. And very interestingly, Phil Snowdon has developed the PalmOS version, to be found at http://bogomips.sourceforge.net.

3.4. Variations in BogoMips rating

From Linus Torvalds, *torvalds@cc.helsinki.fi*, explaining about the variation one may see in the BogoMips rating, in c.o.l.development, at 28 April 1994

`The BogoMips calculation loop is "quantizised", so you're most likely to get the exact same number all the time. You usually will get different numbers only if the speed is just on the "edge", when small variations (different time for interrupt ticks etc) will make it jump from one value to the other.'

If a kernel is not compiled specifically for the pertaining CPU, also some (even large) variations of the BogoMips ratings can occur, mainly due to erroneous alignment. This problem apparently only occurs on the various x86 CPUs (Intel and clones). Fortunately it can easily be solved: recompile the kernel specifically for your CPU.

3.5. New BogoMips algorithm?

No, the BogoMips algorithm, contrarily to popular believe, did NOT change over the various kernel versions. Furthermore, it is intrinsically the same for all CPUs of all makes.

What did change from kernel version 2.2.13 to 2.2.14 is the CPU state setting just before the BogoMips calculation. This affects the BogoMips rating for all Intel and AMD Pentium variations, resulting in approximately 2*clock, if they were not 2*clock already.

The entries based on these upgraded kernel versions for CPUs where this change was actually relevant for (Pentium II/III, Celeron, Athlon) are marked in the list below with an initial * (star symbol).

3.6. BogoMips ... failed

Suggested by various questions on the net and private mail, e.g., by Lily, *lbliao@alumni.caltech.edu*, and by Pierre Frenkiel, *frenkiel@cdfap2.in2p3.fr*. In March 1995 they asked:

`When I boot Linux I get the message:

```
Calibrating delay loop.. ok - 23.96 BogoMips failed
```

Where/why has the calibration delay loop failed?'

It didn't fail. If it had failed the text would have been

```
Calibrating delay loop.. failed
```

What likely did fail was a driver for some gadget which you may not have in your machine. Just after calculating the BogoMips rating all device drivers are initiated. First the SCSI devices, then Net devices, etc. Any failure is duly reported. Noteworthy is the AHA152x driver. Other effects of failing drivers (and not of failing BogoMips calculations) are systems crashes, long waits, and complete system locks, somewhere close to (just before or just after) outputting the ok – xx.xx BogoMips text.

Since Linux 1.2 many error messages have improved, so upgrade to at least that version to find out which particular driver it is that is failing. Also recompile the kernel to only include the drivers that are actually needed for your hardware configuration.

3.7. What about clone CPUs (Cyrix, NexGen, AMD, etc)

Cyrix 486–like CPUs need cache enabling software, sometimes referred to as BogoBoost software. Cyrix 5x86 and 6x86 CPUs may have their BogoMips improved drastically by branch–prediction (BIOS option). Note that the performance improvement may be marginal. There are several packages available for adjusting Cyrix CPUs, such as the BogoBoost patch, cx5x86mod, and set6x86, all from the normal archives, in obvious

places. It is reported the Cyrix 6x86 CPUs may give better performance when the kernel is compiled with 486–optimization, instead Pentium–optimization.

NexGen 386–enhanced CPUs, marked as Nx586, are listed as 386–like, since the fact that they are performing like Pentium machines is not relevant to BogoMips.

AMD 5x86, also denoted as AMD 486DX5, are quadrupled 486/33 machines. They are fully in line with other 486 CPUs. The AMD K5 and the K6 are Pentium–like CPUs, with their own BogoMips multipliers.

3.8. Why to pay attention to BogoMips

Let me add that there are only two reasons for paying attention to the BogoMips rating that is presented on booting Linux:

- 1. To see whether it is in the proper range for the particular processor, its clock frequency, and the potentially present cache. Many CPUs are prone to faulty setups of
 - ♦ memory cache setting (write-back is wrong for BogoMips, often reported lower than 5; write-through is ok)
 - ♦ turbo-buttons (should be ON)
 - ♦ BIOS-software emulated fake cache (change it for real cache)
 - ♦ similar cache and clock related things, sometimes also BIOS-software related
- 2. To see whether your system is faster than mine. Of course this is completely wrong, unreliable, ill–founded, and utterly useless, but all benchmarks suffer from this same problem. So why not use it? This inherent stupidity has never before stopped people from using benchmarks, has it? :–)

Note of the author: this remark was made somewhere in the mid nineties when comparing high BogoMips rates for some low-capacity CPUs with high clockrates (e.g., 486) to rates for CPUs with lower clock rates but much more capacity (e.g., Pentiums).

More serious uses for real benchmarking are addressed in the Linux Benchmarking Howto by Andre D. Balsa.

4. Compilation of ratings

The following table gives some reported BogoMips ratings for various systems: close to 2000 entries by about 1500 different persons, from over 50 different countries. Each entry lists the CPU type (e.g. Pentium M); the clock speed (/1700) in MHz; the BogoMips rating with two decimals, and the reporter's name and e-mail address. Note that the ratings here are from the actual Linux booting sequence, except of course for the section on Non-Linux Systems. And all e-mail addresses have been anti-spam manipulated: replace @_ with @ for the original reporter.

Some entries are marked with an '*'. See the chapter above about the 'New algorithm?' for explanation. Other abbreviations used in the tables include *overcl* for overclocked CPUs running at a higher clockrate than it is officially purchased for, *SMP* for Symmetric MultiProcessing, and *ht* for hyperthreading, listed under SMP.

4.1. 386 systems: SX, DX, Nexgen

```
System
                                BogoMips Reporter
 System

386SX/8 undercl

1.04 Andrew Costa <c_cnaose_wannercl

386SX/12

1.78 Klaus Kettner <kk@_sesom.de>

386SX/16

1.99 James Vahn <jvahn@_short.circuit.com>
                               1.04 Andrew Costa <c_chaos@_wahnapitae.on.ca>
386DX/16 2.49 Mike <mike@_emgee.demon.co.uk>
386DX/20 Intel 3.0 Malcolm Reeves <reeves@_rockyl.usask.ca>
386DX/20 Intel 3.08 Si. Harris <harris@_teaching.physics.ox.ac.uk>
 386DX/20 Nec Powermate 3.22 David J Dawkins <davidd@_isl.co.uk>
 386DX/20 Micronics 3.25 M Haardt <u31b3hs@_informatik.rwth-aachen.de>
 386DX/20
3.67 Joost Helberg 
386DX/25
386DX/25
3.91 Ian McCloghrie <imcclogh@_cs.ucsd.edu>
386DX/25
3.92 Test Man <mr_nobby@_yahoo.com>
3.95 Grant Edwards <grante@_aquarius.rosemo</pre>
                                   3.67 Joost Helberg <jhelberg@_nlsun8.oracle.nl>
 386DX/25 3.95 Grant Edwards <grante@_aquarius.rosemount.com

386DX/25 Ocache 3.96 J.O. Williams <jow@_techbase.com>

386DX/25 32cache 4.53 J.M.A. Lahtinen <jmalahti@_klaava.Helsinki.FI

386DX/33 5.86 Tim Lacy <timla@_microsoft.com>

386DX/33 64cache 5.99 Lars Wirzenius <wirzeniu@_kruuna.Helsinki.FI>
                                   3.95 Grant Edwards <grante@_aquarius.rosemount.com>
                                   4.53 J.M.A. Lahtinen < jmalahti@_klaava.Helsinki.FI>
```

```
386DX/33 Intel
                          5.99
                                  Harri Pasanen <hpasanen@_cs.hut.fi>
386DX/33 no387
                         6.03 Joel B.Levin <levin@_bbn.com>
386DX/33 387
                         6.03 Peter Bechtold <peter@_fns.greenie.muc.de>
386DX/40
                         6.21 J.L. Brothers <brothers@_halcyon.com>
386DX/33
                         6.46 Dennis Robinson <djrobins@_uxa.cso.uiuc.edu>
386DX/33
                         6.5 Dean Nelson <deannelson@_aol.com>
386DX/33 387 256cache 6.65 Wim van Dorst <baron@_clifton.hobby.nl>
                         6.65 R Lim <ricklim@_opus.freenet.vancouver.bc.ca>
386DX/33
                         6.7
386DX/33
                                 Craig Hagan <hagan@_cih.com>
                         6.99 Ken Wilcox <wilcox@_math.psu.edu>
386DX/40
                        7.76 Joe Phillips <rchandra@_letter.com>
7.10 Kerry Person <kperson@_plains.NoDak
386DX/40 AMD
386DX/40 AMD
                                 Kerry Person <kperson@_plains.NoDak.edu>
                          7.10
386DX/40
                                 D. Bikram Singh <a336dhal@_cdf.toronto.edu>
386DX/40 7.10 D. BIKTAM STINGH AUGSTANDED:
386DX/40 128cache 7.23 Julian Francis Day <jfd0@_aber.ac.uk>
386DX/40 bogoboosted 7.23 Pat St Jean <stjean@_math.enmu.edu>
386DX/40 AMD 128cache 7.23 Bergs <rabe@_akela.informatik.rwth-aachen.de>
386DX/40 slow DRAM 7.26 John Lockwood <lockwood@_pan.vlsi.uiuc.edu>
386DX/40 128c
                         7.29 Karsten Friese <ftdkafr@_ftd.ericsson.se>
386DX/40
                        7.29 E.C. Garrison <ericg@_nickel.ucs.indiana.edu>
                        7.29 Darin Cowan <cowan@_rubicon.org>
386DX/40
386DX/40
                         7.29 Bonne van Dijk <bonne@_cs.utwente.nl>
386DX/40 AMD 7.76 Todd Lindner <tlindner@_panix.com>
386DX/40 7.76 Bear Giles choose indirections
386DX/40 7.98 F Pilhofer <fp@_informatik.uni-frankfurt.de>
386DX/40 64c 7.98 Dean Junk <dpjunk@_mm.com>
386DX/40 AMD 32c 7.98 Tommy Olsen <tommyo@_ifi.uio.no>
386DX/40 AMD 7.98 James Reith <reith@_record
386DX/40 AMD 387 64c 7.91 <wires@_gnu.ai.mit.edu>
                        7.98 Aaron T. Baldie <atb@_u.washington.edu>
386DX/40
386DX/40 128c
                        7.98 John Pate < jpate@_easynet.co.uk>
                        7.98 Christian Nelson <cnelson@_csugrad.cs.vt.edu>
386DX/40
                         7.98 Alan Peckham <peckham@_drei.enet.dec.com>
386DX/40
                        8.06 Michael Guslick <michaelg@_alpha2.csd.uwm.edu>
386DX/40
386DX/40
                         8.06 Richard Brown <br/>
Sprown@_midget.towson.edu>
                         8.06
                                 Bill G. Bohling <bs146@_tali.uchsc.edu>
386DX/40
386DX/40 AMD
                         8.06 McWilliam <hamishpmcwilliam@_netscape.net>
Nx586/90 NexGen 67.44 <root@_wgw.mnsinc.com>
Nx586/90 NexGen 67.44 Robert Gehring <rag@_cs.tu-berlin.de>
Nx586/90 NexGen 67.48 David G. Eckard <dgeckard@_eos.ncsu.edu>
Nx586/100 NexGen 74.34 Cameron L. Spitzer <cls@_truffala.sj.ca.us>
Nx586/100 NexGen 256c 74.56 Marius Groenendijk <marius@_cray-systems.lu>
Nx586/110 NexGen 256c 81.51 Michael J. Micek <mmicek@_muddcs.cs.hmc.edu>
```

4.2. Oddly or faultily configured 386 systems

```
BogoMips Reporter
System
386DX/16 387 nocache 0.57 H. Peter Anvin <hpa@_nwu.edu>
386DX/25 0.82 P Wright <philip.wright@_purplet.demon.co.uk>
386DX/25 nocache 1.03 Mark A. Horton <mahmha@_crl.com>
386SX/16
                    1.5 Stefan Kromer <sk@_galaxy.sunflower.sub.org>
                     1.6 Bill Davidsen <davidsen@_tmr.com>
386SX/16
                     1.87 Paul C. Dulany <pcdulany@_wam.umd.edu>
386SX/20
                     2.45 Roger Harkess <roger@_visi.com>
386SX/20
386SX/20 2.45 Roger narkess \rogere_\visi.com
386DX/25(?) 128c 6.03 Chuck Meo \text{meo@_solbourne.com}
                 13 Ed Runnion <erunnio@_hubcap.clemson.edu>
386DX/20
```

4.3. 486 systems

-	ogoMips	Reporter
486SX/20 DECpc	9.98	Thomas Pfau <pfau@_cnj.digex.com></pfau@_cnj.digex.com>
486SX/25	12.24	M. Buchenrieder <mibu@_scrum.greenie.muc.de></mibu@_scrum.greenie.muc.de>
486SX/25	12.3	Darren McKay <e9bh@_unb.ca></e9bh@_unb.ca>
486SX/25	12.42	<pre>Mark R. Lindsey <mlindsey@_nyx.cs.du.edu></mlindsey@_nyx.cs.du.edu></pre>
486SX/25	12.42	Samuel Thibault <samuel.thibault@_ens-lyon.fr></samuel.thibault@_ens-lyon.fr>
486DX/25	12.5	Phillip Hardy <phillip@_mserve.kiwi.gen.nz></phillip@_mserve.kiwi.gen.nz>
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4.4. Oddly or faultily configured 486 systems

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```

4.5. 486 variations: Cyrix/IBM, UMC, Intel Overdrive

486SLC2/66 IBM 128c 486SLC2/66 486SLC/50	18.95 19.02 19.28	Sujat Jamil <sujat@_shasta.ee.umn.edu> Harry Mangalam <mangalam@_uci.edu> Sion Arrowsmith <sion@_bast.demon.co.uk></sion@_bast.demon.co.uk></mangalam@_uci.edu></sujat@_shasta.ee.umn.edu>
486BL3/75 IBM 256c	21.40	Anders Stenback <anders.stenback@_gmail.com></anders.stenback@_gmail.com>
486BL3/75 IBM 256c	21.50	Ming S. Chan <ming.chan@_canrem.com></ming.chan@_canrem.com>
486DX2/66 Cyrix	26.62	Demian Marshall <dandfi@_nospam.shaw.ca></dandfi@_nospam.shaw.ca>
486DX2/66 Cyrix 128c	26.63	Derek Kwan <dkwan@_zeus.uwaterloo.ca></dkwan@_zeus.uwaterloo.ca>
486DX2/66 Cyrix	26.63	Adrian Parker <adrian@_willen.demon.co.uk></adrian@_willen.demon.co.uk>
486DX2-S/66 256c	26.63	<pre>Jean-Marc Wislez <jeanmarc.wislez@_rug.ac.be></jeanmarc.wislez@_rug.ac.be></pre>
486DX2/66 Cyrix	26.63	Curran W. Fey <fey@_biotech.washington.edu></fey@_biotech.washington.edu>
486BL3/100 IBM 256c	28.36	Anders Stenback <anders.stenback@_gmail.com></anders.stenback@_gmail.com>
486SX-S/33 UMC 0c	20.20	<pre>Hynek Med <xmedh02@_manes.vse.cz></xmedh02@_manes.vse.cz></pre>
486SX-S/40 UMC 0c	26.52	<pre>Hynek Med <xmedh02@_manes.vse.cz></xmedh02@_manes.vse.cz></pre>
486SX-U5/40 UMC 0c	26.63	Dusan Mihajlovic <zdule@_herkules.co.yu></zdule@_herkules.co.yu>
P0DP5V63/63	124.51	Christian Lederer <mail@_cpu-museum.de></mail@_cpu-museum.de>

4.6. Pentium systems

```
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System
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                          23.96 Joost Helberg < jhelberg@_nlsun8.oracle.nl>
Pentium/60
                          23.96 Ulf Tietz <ulf@_rio70.bln.sni.de>
Pentium/60 Gateway
                       23.96 Manoj Kasichainula <mvkasich@_eos.ncsu.edu>
Pentium/60
                         23.96 Pierre Frenkiel <frenkiel@_cdfap1.in2p3.fr>
Pentium/60 23.96 Tim Oosterbroek <tim@_astro.uva.nl>
Pentium/60 NCR 3455 24 Mathias Koerber <mathias@_solomon.technet.sg>
Pentium/60 24 Joe Sloan <jjs@_engr.ucr.edu>
Pentium/60
                         24.0 Mark H. Wood <mwood@_indyvax.iupui.edu>
Pentium/60
                          24.13 R.M. van Rijswijk <rijswijk@_cs.utwente.nl>
Pentium/66
                          25 Chuck Munro <chuckm@ canada.hp.com>
Pentium/66
                          26.63 Jason M. Naughton < jnaughto@_ee.ryerson.ca>
                         26.84 Kelly Carmichael <kcarmich@_cln.etc.bc.ca>
pentium/66
Pentium/75 256c
                          29.5 Chris Dodd <cdodd@_super.win.or.jp>
                          29.70 H. Cuijpers <hcuijpers@_maas-services.com>
Pentium/75
                          29.79 Scott M. Grim <sgrim@_netwalk.com>
Pentium/75
                          29.80 Torbjoern Kristoffersen <torbkris@_online.no>
Pentium/75
                          29.95 Steve Martin <smartin@_mrg.uswest.com>
Pentium/75
                          30.22 Zoran Marjanski <bagzor@_enterprise.ca>
Pentium/75
                          30.22 Andrew Buckby <c4ab1@_dmu.ac.uk>
Pentium/75
Pentium/75 30.22 Stuart Nuttall <u9230106@_sys.uea.ac.uk>
Pentium/90 notebook 32.73 Rich Neves <neves@_cs.colorado.edu>
Pentium/83 overdrive 33.55 JCS <jean-claude.schwartz@_contiteves.com>
Pentium/90 34 07 A Calbraith (Fig. 1) 2
Pentium/90
                          34.07 A. Galbraith <ajgalb@_postman.essex.ac.uk>
Pentium/90 zappa 256c 35.6 Sebastien Dedieu <dedieu@_emi.u-bordeaux.fr>
                          35.84 Jason Nunn <jsno@_stormfront.com.au>
Pentium/90
Pentium/90
                          35.88 Joe Anderson <CPJJA@_ttacs3.ttu.edu>
Pentium/90
                          35.88 Warwick Allison <warwick@_cs.uq.oz.au>
                          35.94 Erik Walthinsen <omega@_teleport.com>
Pentium/90
Pentium/90
                          36    Joe Sloan <jjs@_engr.ucr.edu>
Pentium/90
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                                Larry Auton <lda@_nfa.research.att.com>
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Pentium/90
Pentium/90
                          36.0 Werner Almesberger <almesber@_lrc.epfl.ch>
                         36.06 Rob J. Nauta <rob@ iaehv.nl>
Pentium/90
Pentium/90
                         36.08 Leung Hon Wa <cshwleun@_cs.citu.edu.hk>
Pentium/90 Zeos 36.08 Chris Laurel <claurel@_mr.net>
Pentium/90
                         36.08 Ronald Prague <ronp@_fishnet.net>
                          36.08 Adrian Blues <adrian@_hypereality.co.uk>
Pentium/90
                          36.08 Pak Yin Tam "Fred" <ptam@_eesun1.tamu.edu>
Pentium/90
```

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 Pentium/90
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 Pentium/90 Gateway
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 Pentium/90
 Pentium/90
                                                           36.08 Richard Mundell <R.Mundell@_uea.ac.uk>
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 Pentium/90
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 Pentium/90
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 Pentium/90
 Pentium/90
Pentium/90 36.08 Ravi Krishna Swamy <rkswamy@_eos.ncsu.edu>
Pentium/90 36.08 J.L. Brothers <br/>
Pentium/90 Micronics 36.09 Andrew Brown <andrewbrown@_acm.org>
 Pentium/90 36.27 Giao H Phan <giao@_concrete.resnet.upenn.edu>
Pentium/90 Plato 36.4 Joe Valenzuela <smarm@_ibm.net>
 Pentium/90
                                                          36.5 Mike Kelleher <mikejk@_umfacad.maine.edu>
 Pentium/90 36.9 Ted Gaunt <tgaunt@_pms701.pms.ford.com>
Pentium/100 overcl 38.39 Stefan Onderka <stefan.onderka@_metronet.de>
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Pentium/100 overcl 39.94 Donar G.E. Alofs <donar@_cs.vu.nl>
Pentium/100 39.94 Larry Snyder <larrow to the pentium/100
                                                         39.94 Larry Snyder <larry@_trauma.iag.net>
                                                          39.94 Ian Hill <ian@_hecate.phy.queensu.ca>
 Pentium/100
                                                          39.94 John Crawford <link@_spu.edu>
 Pentium/100
                                                          39.94 Alexandre de Menezes <menezes@_peta.com.br>
 Pentium/100
 Pentium/100
                                                          39.94 Jered <jered@_mit.edu>
Pentium/100 39.96 Dan Kha <dkha@_yorku.ca>
Pentium/100 39.98 Phillipe Charon <charron@_ecoledoc.ibp.fr>
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Pentium/100 40.18 <habbie@_catevr.fiu.edu>
Pentium/120 Cyrix 47.8 Simon Ho <simon@_epsilon.win-uk.net>
Pentium/120 47.82 Jorge Juan-Chico <jjchico@_imse.cnm.es>
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Pentium/120 48.27 Roman Mitnitski <mitnits@_shany.net>
Pentium/120 48.27 Peter Walsh 
Pentium/120 Cyrix 48.2 Viznyuk <sviznyuk@_magnus.acs.ohio-state.edu>
Pentium/120 49.27 Simon Hargrave <simon@_revell.demon.co.uk>
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                                                           53.04 Wayne Roberts <wroberts@_aug.com>
 Pentium/133
                                                        53.04 A.J. Wilson <wilston.austin.aj@_bhp.com.au>
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	Pentium/133		53.26	Heikki Levanto <heikki@_lsd.ping.dk></heikki@_lsd.ping.dk>
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	Pentium/133	256c	53.68	Guiseppe Miceli <ferdy@_ccii.unipi.it></ferdy@_ccii.unipi.it>
	Pentium/133		53.68	Michael Kress <kress@_hal.saar.de></kress@_hal.saar.de>
	Pentium/150	Intel	59.80	Joel D. Young <jdyoung@_afit.af.mil></jdyoung@_afit.af.mil>
	Pentium/150		60.01	Joost de Greef <joost@_stack.nl></joost@_stack.nl>
	Pentium/150	overcl	60.21	Duarte Cordeiro <138404@_alfa.ist.utl.pt>
	Pentium/166		66.16	Pedro Soria-Rodriguez <sorrodp@_wpi.edu></sorrodp@_wpi.edu>
	Pentium/166		66.35	<pre>K. Visweswaran <kviswesw@_lehman.com></kviswesw@_lehman.com></pre>
	Pentium/166		66.36	T. Endo <enchan@_trc.rwcp.or.jp></enchan@_trc.rwcp.or.jp>
	Pentium/166		66.44	Donald Lewis <dlewis@_jackson.freenet.org></dlewis@_jackson.freenet.org>
	Pentium/166		66.76	F. Baitinger <baiti@_herrenberg.netsurf.de></baiti@_herrenberg.netsurf.de>
	Pentium/166		67.10	Jon Trowbridge <trow@_mcs.com></trow@_mcs.com>
	Pentium/166		67.10	Dylan <dylan@_ert.com></dylan@_ert.com>
	Pentium/166	512c	67.10	Dirk Freese <freese@_infra.de></freese@_infra.de>
	Pentium/188	overcl	74.96	Reijo Pitkanen <reijop@_bzln.com></reijop@_bzln.com>
	Pentium/200		79.66	Piete Brooks <piete.brooks@_cl.cam.ac.uk></piete.brooks@_cl.cam.ac.uk>
	Pentium/200		79.69	<pre>Timm Gleason <timm@_bess.net></timm@_bess.net></pre>
	Pentium/200		79.89	Dave S. Baker <dave@_acedia.demon.co.uk></dave@_acedia.demon.co.uk>
	Pentium/200		78.87	Nick D'Apice <ndapice@_erols.com></ndapice@_erols.com>
	Pentium/200		80.08	Anders Stenback <anders.stenback@_gmail.com></anders.stenback@_gmail.com>
	Pentium/200		80.08	Steve Freeland <sfreel@_cs.mcgill.ca></sfreel@_cs.mcgill.ca>
	Pentium/200		81.92	Steve Baur <steve@_xemacs.org></steve@_xemacs.org>
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*	Pentium/90		179.81	Gavin McDonald <gavitron@_telus.net></gavitron@_telus.net>
*	Pentium/100	HP	197.00	<pre>Kevin Rutan <mt2mb@_neo.rr.com></mt2mb@_neo.rr.com></pre>
*	Pentium/100		198.66	Patrick Nichols <pat@_humbug.org.au></pat@_humbug.org.au>
*	Pentium/100		199.48	McWilliam <hamishpmcwilliam@_netscape.net></hamishpmcwilliam@_netscape.net>
*	Pentium/133		264.60	Lew Pitcher <lew.pitcher@_td.com></lew.pitcher@_td.com>
*	Pentium/133		265.42	Max Vasin <max@_mail.ru></max@_mail.ru>
*	Pentium/133			Vadim <root@_teleline.es></root@_teleline.es>
*	Pentium/133			Loren J Donelsson <nojunk@_nojunk.com></nojunk@_nojunk.com>
*	Pentium/166			Sabu <sabu@_chatpr.org></sabu@_chatpr.org>
*	Pentium/166			Electra Flarefire <bcrowe@_optushome.com.au></bcrowe@_optushome.com.au>

4.7. Oddly or faultily configured Pentium systems

```
System BogoMips Reporter

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Pentium/90 notebook 9.5 Mark Maybee <markm@_cs.colorado.edu>
6x86/120 Cyrix 52.32 Joel Boring <dwild@_eskimo.com>
Pentium/83 Overdrive 82.85 Brian Smith <smithb@_laraby.tiac.net>
Pentium/83 Overdrive 83.32 Scott Francis <mord@_netcom.com>
Pentium/83 Overdrive 82.94 G. Spiegelberg <greg@_owens.ridgecrest.ca.us>
Pentium/83 Overdrive 83.35 Jacek Polewczak <jacek.polewczak@_csun.edu>
6x86/120 P120+overcl 104.86 Howard Poe <falcor@_kingsnet.com>
Pentium MMX/266 130.66 <yorkchan@_hotmail.com>
Pentium MMX/263 overcl 392.40 John Appleby <jma24@_cam.ac.uk>
AMD K6-2/300 399.95 Chris Ebenezer <chriseb@_nortelworks.com>
Pentium MMX/231 419.43 Juan Domenech <domenech@_mail.seric.es>
Pentium MMX/263 overcl 435.87 Juan Domenech <domenech@_mail.seric.es>
SMP4 Pentium Pro/200 700.13 R Carrico <rooler_carrico@_themoneystore.com>
```

4.8. Pentium variations: Intel (MMX, Pro, II, Celeron, III, 4, M)

```
BogoMips Reporter
 System
                                                                   265.77 Ron Peters <rpeters@_f15fast.al.intel.com>
 Pentium MMX/133
 Pentium MMX/150
                                                                    307.53 Sami Sihvonen <buggy@_fix.no>
 Pentium MMX/166 notebk 329.31 Massimo Pinto <pinto@_graylab.ac.uk>
 Pentium MMX/166 notebk 331.75 NN <visionary@_aura.title14.com>
                                                                   331.78 Rob Janssen <pelchl@_amsat.org>
                                                                   331.78 Dave Page <dave@_vale-housing.co.uk>
 Pentium MMX/166
                                                                   331.78 Matthew C. Sell <amtmcs@_amsta.leeds.ac.uk>
 Pentium MMX/166
Pentium MMX/180
Pentium MMX/200
Pentium MMX/20
                                                               398.95 Duane Steel <dsteele@_direct.ca>
 Pentium MMX/200
 Pentium MMX/200 398.95 Duane Steel <asteeleg_airect.ca>
Pentium MMX/200 398.95 <a href="mailto:analymath.uwaterloo.ca">analymath.uwaterloo.ca</a>
 Pentium MMX/200 mobile 398.95 Nam <nam@_netvigator.com>
Pentium MMX/200
Polium MMX/200
Pentium MMX/200
Polium MMX/200
Pentium MMX/200
 Pentium MMX/200 400.59 Juno Cederstrom <cederstrome_
Pentium MMX/200 400.59 Bart <bart@_aceonline.com.au>
Pentium MMX/210 overcl 416.97 John Saunders <john@_nlc.net.au>
Pentium MMX/225 overcl 448.92 Ingo Reimann <reimann@_uni-muenster.de>
Pentium MMX/225 overcl 448.92 Mattias Hembruch <mghembru@_ece.uwaterloo.ca>
Pentium MMX/225 overcl 448.92 Larry Lade <lade@_btigate.com>
 Pentium MMX/230 overcl 461.85 Rene Stanneveld <edge@_huizen.nhkanaal.nl>
Pentium MMX/233 466.94 Keith Beacham <kbeacham1@_sympatico.ca>
Pentium MMX/233 466.94 Erwin Lubbers <erwin@_box.nl>
 Pentium MMX/250 overcl 498.07 Maarten van Rossum <m@_vr.xs4all.nl>
 Pentium MMX/266 overcl 525.93 Frank <r2@_xs4all.nl>
 Pentium MMX/266 532.48 Wade Mealing <root@_damage.com>
 Pentium MMX/290 overcl 581.63 Brian <eradicator@_home.com>
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 Pentium Pro/150
                                                                   179.61 Chuck Fee <fee@_ch4549.org>
 Pentium Pro/180
                                                                   197.42 Michael Griffith <grif@_cs.ucr.edu>
 Pentium Pro/200
                                                                   197.42 Curtis Varner <carner@_cs.ucr.edu>
 Pentium Pro/200
                                                                   198.84 Erik Max Francis <max@_alcyone.com>
 Pentium Pro/200
 Pentium Pro/200
                                                                   198.84 Marc Winkler <marcus@_healthchex.com>
 Pentium Pro/200
                                                                   199.04 V. Bostrom <Vareck_Bostrom@_ccm.jf.intel.com>
Pentium Pro/200 199.06 Justin Clancy <justin@_hippos.demon.co.uk
Pentium Pro/200 199.06 Glenn Lamb <mumford@_netcom15.netcom.com>
Pentium Pro/200 199.06 Laszlo Herczeg <las@_light-house.com>
                                                                 199.06 Justin Clancy <justin@_hippos.demon.co.uk>
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           Pentium Pro/200
                                                                                                             199.07 Matthew S. Crocker <matthew@_crocker.com>
           Pentium Pro/200
           Pentium Pro/200
                                                                                                             199.07 Roberto <rc@_cr.com>
                                                                                                              199.95 Reinhold J. Gerharz <rgerharx@_erols.com>
           Pentium Pro/200
                                                                                                    200.32 Gil Megidish <gmegidis@_ort.org.il>
200.32 Jose Navarro <jnavarro@_aoc.nrao.edu>
200.32 <Eric_Zucker@_om.hp.com>
            Pentium Pro/200
           Pentium Pro/200
            Pentium Pro/200
                                                                                                                 200.32 Wayne Scott <wscott@_ichips.intel.com>
            Pentium Pro/200
           Pentium Pro/200 200.32 wayne Scott  vayne S
     Pentium Pro/233 overcl 234.43 S. Curtarolo <auro@_spiro.fisica.unipd.it>
Pentium Pro/400 397.31 Lamarque Vieira Souza <lamarque@_dcc.ufmg.br>
Pentium Pro/200 399.76 Horst Wente <horst.wente@_acm.org>
         Pentium II/233 23.65 Jan Houtsma <jan@_houtsma.net>
Pentium II/233 233.47 Torbjoern Kristoffersen <torbkris@_online.no>
Pentium II/233 233.47 Sorin Mitran <mitran@_irs.fzk.de>
Pentium II/118 234.29 Jose Gerardo A Quejada <gquejada@_nsclub.net>
Pentium II/266 265.42 Jon Trowbridge <trow@_kremlin.emccta.com>
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Pentium II/266 267.06 James McKinnon <jmack@_phys.ualberta.ca>
Pentium II/266 267.06 Greg <gl2hughes@_undergrad.math.uwaterloo.ca>
Pentium II/266 267.06 Pros Robaer 
Pentium II/266 272.79 Frank Hale <frankhale@_worldnet.att.net>
Pentium II/300 overcl 299.01 Martin Lathoud <nytral@_endirect.qc.ca>
 * Pentium II/118
            Pentium II/300 overcl 299.01 Martin Lathoud <nytral@_endirect.qc.ca>
           Pentium II/300 0verc1 299.83 Andy Busch <br/>
Pentium II/300 299.83 Andy Busch <br/>
Pentium II/333 332.60 Eric Games <frequenc@_laf.cioe.com><br/>
Pentium II/350 347.34 NN <silkythreads@_home.com><br/>
Pentium II/350 349.80 Rizzoli <ri>
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Rattin Bathodd <nytrale_endriect.qc.c.<br/>
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Rizzoli <
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	Pentium 4/1400	2785.28	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Pentium 4/1400 Mobile	2785.28	Frank Herrmann <fh15@_inf.tu-dresden.de></fh15@_inf.tu-dresden.de>
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	Pentium 4/1700	3361.91	1
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	Pentium 4/2800	5439.48	_
	Pentium 4/2800	5521.40	1 11 3 11 -
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	Pentium M/2000	3923.96	
	rentrum M/2000	3923.90	FILE DE DIGUMET /ETTER-de-Digumet.ne>

4.9. Pentium variations: Cyrix, AMD (K5/K6/K7, Duron, Athlon, Opteron), Centaur

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21064A/233 AS225 Avanti 228.58 Roberto Giungato <roberto@_giungato.it>
21064A/233 Avanti 230.16 Rich Griswold <rgriswold@_us.ibm.com>
21064A/275 Cabriolet 271.58 Michal Jaegermann <michal@_phys.ualberta.ca>
21064A/275 Cabriolet 272 Linus Torvalds <torvalds@_cc.helsinki.fi>
21064A/275 Cabriolet 272.63 Jay Estabrook <jestabro@_amt.tay1.dec.com>
21064A/275 Cabriolet 273.37 David Mosberger-Tang <davidm@_cs.arizona.edu>
21064A/275 Cabriolet 273.37 David Mosberger-Tang <davidm@_cs.arizona.edu>
21064A/275 Cabriolet 274.11 Kevin Jacobs <jestabro@_amt.tay1.dec.com>
21064A/275 Cabriolet 274.11 Kevin Jacobs <jestabro@_amt.tay1.dec.com>
21064A/300 Cabriolet 298 Jay Estabrook <jestabro@_amt.tay1.dec.com>
```

```
298
                                                                 Stephen Gaudet <sjg@_tiac.net>
 21064A/300
 21066/166 Noname 162.52 Paavo Hartikain <pahartik@_sci.fi>
                                              162.53 Phil Bostley <pbostley@_qualcomm.com>
 21066/166
 21066/166
                                             163.05 Matthew Jacob <mjacob@_feral.com>
                                             163.05 Jon Spreha <jxs557@_psu.edu>
21066/166
                                              164.59 David Mosberger-Tang <davidm@_cs.arizona.edu>
 21066/166
21066/166 Multia 164.63 Rudolf Gabler <rug@_usm.uni-muenchen.de>
 21066/166 165 Gareth Bult <gareth@_ftech.net>
21066/166 165.04 Craig Ruff <cruff@_ncar.ucar.edu>
21066/200 196.9 Danny ter Haar <danny@_cistron.nl>
21066/200 UDB overcl 198 Kari Davidsson <d154402@_cs.tut.fi>
 21066A/233 UDB 229.63 Toon van der Pas <toon@_vdpas.hobby.nl> 21066A/233 AS400 230.16 Ophir Ronen <ophir@_connectsoft.com>
 21066A/233 AS200 Avanti 230.16 B. James Phillippe <br/> bryan@_terran.org>
 21066A/233 NoName 230.67 T. Bogendoerfer <tsbogend@_bigbug.franken.de>
                                         230.68 Ted Schipper <ted@_tedux.hobby.nl>
230.76 Mikael Nykvist <viper@_ludd.luth.se>
 21066A/233 UDB
 21066A/233 NoName
 21066A/233 UDB 231.21 Eric Smith <eric@_goonsquad.spies.com> 21066A/233 NoName 231.21 Jay Estabrook <jestabro@_amt.tay1.dec.com>
 21066A/266 NoName ov.cl 261.62 Andreas Johansson <ajo@_ludd.luth.se>
 21066A/266 UDB overcl 261.62 Michael Brennen <mbrennen@_fni.net>
 21066A/266 NoName ov.cl 262.14 Wim van Dorst <baron@_clifton.hobby.nl>
 21066A/266 Multia 264 Joshua Grubman <joshg@_dn.net>
 21066A/284 NoName ov.cl 281.0 <imakino@_gloria.cord.edu>
 21066A/297 NoName ov.cl 293.6  <imakino@_gloria.cord.edu>
 21066A/300 UDB ov.cl 294.65 Topi Kanerva <tkanerva@_nks.oulu.fi>
21164/266 EB164 265.29 Jay Estabrook <jestabro@_amt.tay1.dec.com>
21164/300 EB164 297.79 Hilarius <maurice@_math.ualberta.ca>
21164/300 XLT Alcor 297.79 Dave Wreski <dave@_nic.com>
21164/300 AS1000 297.79 Salvador Pinto Abreu <spa@_sc.uevora.pt>
21164/333 Alcor 331.35 Linus Torvalds <torvalds@_cs.helsinki.fi>
21164/333 Alcor 331.35 David Mosberger-Tang <davidm@_azstarnet.com>
21164/366 XLT Alcor 362.80 Paul Slootman <paul@_wurtel.demon.nl>
21164/366 RC164 Durance 363.85 Coorten Kuiner 
Coorten Kuiner <p
 21164/366 PC164 Durango 363.85 Geerten Kuiper <geerten@_bart.nl>
497 Alex Butcher <alex@_asimov.annex.co.uk>
 21164/500
                                     497.02 C.J. Grayce <cgrayce@_wasatch.ps.uci.edu>
497.05 Heiner Kruener <hk@_martian.ping.de>
21164/500 PC164
21164/500
21164/250 Sable 497.02 Tom Greene <cowgod@_idt.net>
                                              497.02 James D. Freels <freelsjd@_ornl.gov>
21164/500
                                              497.03 Jim Nance <jlnance@_avanticorp.com>
21164/500 AS500
21164/500 P7 497.03 Jan guldentops <jacko@_ba.be>
 21164/500 EB164 Durango 497.43 Kevin Jacobs <jacobs@_eek.cwru.edu>
21164A/500 PWS 494.88 Kenny Gryp <gryp@_dakin.be>
21164A/500 PWS 497.02 Robert Harley <robert.harley@_inria.fr>
21164A/500 PC164 497.02 Stephen Oberski <sfo@_deterministic.com>
21164A/533 PC164LX 528.12 McWilliam <hamishpmcwilliam@_netscape.net>
21164A/533 PC164LX 529.53 Dumb Kid <dumbkid@_hotmail.com>
21164A/533 PC164LX 529.53 Harvey J. Stein <hjstein@_bfr.co.il>
21164PC/533 PC164SX 529.53 Danny ter Haar <dth@_cistron.nl>
```

```
21164PC/533 PC164SX 529.53 Shane Sturrock <sss@_holyrood.ed.ac.uk>
21164PC/533 PC164SX 529.53 Wim van Dorst <bar>
21164A/533 Ruffian 530.57 Andreas Czerniak <cognac@_toppoint.de>
21164A/533 PC164LX 530.57 Ronny Ranerup <ronny@_axis.com>
21164A/533 PC164LX 530.57 Bill Broadley <bill@_math.ucdavis.edu>
21164A/533 PC164LX 530.58 Stef. Boresch <stefan@_loop.mdy.univie.ac.at>
21164A/600 PC164LX 595.59 L.F. Donaldson <donaldlf@_cs.rose-hulman.edu>
21164A/600 PC164LX 595.59 <stepan@_wesley.informatik.uni-freiburg.de>
21164A/600 PC164 597.60 Fabrizio Santini <sanfff@_tin.it>
21164A/666 PC164LX 662.70 <stepan@_wesley.informatik.uni-freiburg.de>
21164A/666 PC164LX 662.70 Stepan@_wesley.informatik.uni-freiburg.de>
21164A/433 Miata 858.04 Jukka <nn@_inet.fi>
  21264/400 Pass-1 794.82 Jay Estabrook <jay.estabrook@_digital.com> 21264/466 DS10 920.64 Paul Novarese <novarese@_alf.dec.com>
  21264/466 DS10
  21264/466 DS10 920.64 Paul Novarese <novarese@_alf.dec.com>
21264/466 DS10 921.84 ST Wong <st-wong@_alumni.cuhk.net>
21264/500 XP1000 996.00 Wes Bauske <wsb@_paralleldata.com>
                                               996.00 Karl <hawk@_juno.com>
  21264/500
                                               996.14 Lionel Tricon lionel.tricon@_digital.com>
  21264/500
                                            996.14 Paul Novarese <novarese@_alf.dec.com>
  21264/500 DS20
  21264/500 DS20
                                               996.15 Wayne Hall <wayne@_uga.edu>
  21264/500 XP1000
                                               996.40 P. Caulfield <patrick@_balti.london.sco.com>
  21264/600
                                             1203.76 Darrick Wong <djwong@_thibs.menloschool.org>
  21264/667 XP1000 1329.59 Lionel Tricon compaq.com>
  21264DP/666 Tsunami 1329.59 Jens Hoefkens <hoefkens@_msu.edu> 21264/730 Wildfire 1488.97 Lionel Tricon compaq.com>
  21264DP/833 Tsunami 1661.52 Andy Schofield <ajs@_th.ph.bham.ac.uk>
```

4.11. Motorola systems

```
System
                                                                                                    BogoMips Reporter
 68030/14.7 LCII nofpu 3.69 Ruda Moura <ruda@_conectiva.com.br>
 68030/16 Atari Falcon
                                                                                                                3.90 Jay T. Millar <jmillar@_eaglequest.com>
68030/16 Atari Falcon
68030/15 Mac SE30
3.80 Alex Teclo <alexteclo@_gmail.com>
68030/16 Atari Falcon
68030/20 Cisco 2500
4.33 <koen.devleeschauwer@_lid.kviv.be>
68030/20 MacII Si
4.88 Bill Maloy <maloy@_goldinc.com>
68030/20 Cisco 2500
68030/20 MacII Si
4.88 Bill Maloy <maloy@_goldinc.com>
                                                                                                                4.92 Chris Nadigh <chrnadig@_iiic.ethz.ch>
 68030/20 Oc
                                                                                                                6.08 Andy Wick <awick@_vt.edu>
 68030 Amiga 3000
                                                                                                            6.09 Karsten Merker <km@_golf.dinet.com>
  68030/30 Amiga 4000
68030/25 Amiga 3000
6.12 Glen Hewlett <a href="https://www.newlett@_planeteer.com">https://www.newlett@_planeteer.com</a>
68030/25 Amiga 3000
6.21 Hamish Macdonald <a href="https://www.newlett@_planeteer.com">https://www.newlett@_planeteer.com</a>
68030/25 Amiga 3000
6.21 J.L. Brothers <a href="https://www.newlett@_planeteer.com">brothers@_planeteer.com</a>
68030/25 Amiga 3000
6.21 J.L. Brothers <a href="https://www.newlett@_planeteer.com">brothers@_planeteer.com</a>
68030/25 Amiga 3000
6.21 Franz Korntner <a href="https://www.newlett@_planeteer.com">https://www.newlett@_planeteer.com</a>
7.91 Franz Korntner <a href="https://www.newlett@_planeteer.com">https://www.newlett@_planeteer.com</a>
68030 Atari TT
7.96 <a href="https://www.newlett@_planeteer.com">https://www.newlett@_planeteer.com</a>
68030 Atari TT
7.96 <a href="https://www.newlett@_planeteer.com">https://www.newlett@_planeteer.com</a>
 68030/32 Atari MegaST 7.98 E.J. van den Bussche <br/>
68030/33 Atari TT 7.98 C.D. van den Bussche <br/>
68030/33 Atari TT 7.98 C.D. van den Bussche <br/>
68030/33 Atari TT 7.98 C.D. van den Bussche <br/>
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68030/33 Atari TT 7.98 C.D. van den Bussche <br/>
68030/33 Atari TT 7.98 C.D. van den Bussch
 68030/33 Atari TT
                                                                                                                  7.98 <Roman.Hodek@_informatik.uni-erlangen.de>
                                                                                                                7.98 Wayne Booth <trek@_ihgp114r.ih.att.com>
 68030 Atari TT
                                                                                                               8.06 Korey Budgen <kbudgen@_st.nepean.uws.edu.au>
 68030/60
 68030/33 Amiga 2000 8.14 W. Haidinger <e9225662@_stud1.tuwien.ac.at> 68EC030/40 Cisco 4000 8.75 <koen.devleeschauwer@_lid.kviv.be>
 68030/40 MacIIfx
                                                                                                                9.90 Ray Knight <audilvr@_speakeasy.org>
                                                                                                           11.89 Martin Rogge <Martin_Rogge@_ki.maus.de>
 68030/48 32c
 68030/50 Atari 12 <Roman.Hodek@_informatik.uni-erlangen.de>
68030/50 Amiga 1200 12.36 Chris Sumner <chris@_ganymede.sonnet.co.uk>
68030/50 Amiga 1200 12.4 Richard Jerome <etlrdje@_tigger.ericsson.se>
68030/50 32c 12.42 Michael Plonus <michi@_pluto.ping.de>
                                                                                                           12.42 Michael Plonus <michi@_pluto.ping.de>
 68030/50 32c
 68030/50 Amiga 1200 12.33 Detrix <detrix@_popd.ix.netcom.com>
```

```
12.36 E.J.M. Brocklesby <ejb@_klamath.demon.co.uk>
68030/50 Amiga 1200
68040 Mac Centris
                            13.21 <pqrb-usenet@_ygdrasil.demon.co.uk>
68040/24 Mac LC475
                            16.38 Ray Knight <audilvr@_speakeasy.org>
68040/24 Amiga 4000 16.59 Bjarne Wichmann Petersen <mekanix@_nospam.dk>
68040/24 Amiga 4000-40 16.6 Hamish Macdonald <hamish@_bnr.ca>
68040/24 Amiga 4000-20 16.60 J.L. Brothers <brothers@_halcyon.com>
68040/25 Amiga 4000-040 16.61 <Geert.Uytterhoeven@_cs.ku-leuven.ac.be>
68040/25 Amiga 4000 16.61 Lawrence <lawrenc@_nextwork.rose-hulmand.edu>
68040/60 Amiga 4000-40 18.99 Darren Enns <dmenns@_surf.pangea.ca>
68040/28 Mac Quadra650 18.99 Warren James <wjames1@_my-deja.com>
68040/32 Medusa T40 21.25 <hartmut.Koptein@_et-inf.fho-emden.de>
68040 Amiga 2000 21.86 Ron Flory <rjflory@_feist.com>
68040 Mac Quadra650 22 Henry Garcia <compdata@_nb.net>
68040/33 Mac Quadra950 22.11 Ray Knight <audilvr@_speakeasy.org>
68040/33 Mac Quadra650 22.11 Schmitz <schmitz@_biophys.uni-duesseldorf.de>
68040 Mac Quadra650 22.17 Ingvar Hagelund <ingvar@_unik.no>
68040/40 Amiga 1200 26.52 Gavin Kinsey <gavin@_kinsey.u-net.com>
68060/50 Amiga 2000 98.68 Frank Mainz <cybermainzel@_gmx.de>
68060/50 Amiga 1200 99.53 baba <baba@_pa.yokogawa.jp>
68060/50 Amiga 4000 99.74 Stefan Tauche <otauche@_uni-paderborn68060/50 Amiga 4000 100.16 Jan Johansson <jj@_mordor.it.kth.se>
                           99.74 Stefan Tauche <otauche@_uni-paderborn.de>
C8241/266
                            173.26 Bill Rhodes <wrhodes@_27.org>
C8260/132
                          287.85 Wil Moloughney <wil_moloughney@_hotmail.com>
```

4.12. Sparc systems

```
System
                                BogoMips Reporter
                                17.94 J.L. Brothers <brothers@_halcyon.com>
Sparc sun4c
Sparc SLC/20 S1
                                  19.86 Simon Karpen <slk@_linux-shell.net>
                                 24.88 Paolo <paolo0@_yahoo.com>
Sparc sun4c/25
Sparc SS10 sun4m
                                  35.94 Michael Junek <mickey@_webfocus.net.au>
                                  39.83 Paul D. Robertson <proberts@_clark.net>
Sparc IPX 4c
Sparc SS10 super50 4m 39.93 Juan Cespedes <cespedes@_etsit.upm.es>
Sparc microS/50 SS-LX 49.76 Will Shaw <romulan@_netwatch.clemson.edu>
Sparc SS20/50 49.86 Gary A. Donahue <lordgad@_webspan.net>
Sparc hyperS Classic 4m 49.86 Juan Cespedes <cespedes@_etsit.upm.es>
Sparc Voyager portable 59.80 Edward Austin <eastin@_shl.com>
Sparc SS5 Netra 68 Craig Falconer <cf@_papanui.school.nz> Sparc SS5 69.84 Richard D. Davis <rddavis1@_lucent.com>
                                   74.95 Kaz <kaz@_latte.cafe.net>
Sparc SS50
Sparc SS5/85 sun4m 84.78 Kenny Gryp <gryp@_dakin.be>
Sparc SS10 hyperS 99.73 Thomas B. Fox <tfox@_oliverdesign.com>
Sparc SS5/66 109.77 Lance S. Nehring <lnehrin@_uswest.com>
Sparc SS5/66
Sparc SS4/110
                                109.77 Chris Sylvain <csylvain@_umms-itg.ab.umd.edu>
Sparc hSparc sum4m 124.92 Georg Schwarz <schwarz@_physik.tu-berlin.de>
Sparc hSparc/150 Sun4m 150.32 Tethys <tethys@_ml.com>
Sparc Ultra I/143
                                  278.00 Helmut <helmut@_cancon.com>
Sparc Ultra I sun4u 284.05 Iban Cardona <icc@_seric.es>
Sparc Ultra I/143 285.08 Jason Hong <hong@_csulb.edu>
Sparc Ultra I sun4u 333.41 Roberto Giungato <roberto@_giungato.it>
Sparc Ultra II/270 539.03 Pieter Krul 
Sparc Ultra II/300 598.01 Silvo Bozovicar <silvo.bozovicar@_aster.si>
Sparc Ultra II/360 719.25 Cap'n Hector <me@_caphector.com>
Sparc Ultra IIi/360 719.25 Jean Escoto <jean_escoto@_yahoo.com>
```

```
Sparc Ultra II/360 719.26 Bjorn Augustsson <d3august@_dtek.chalmers.se>
Sparc Ultra IIi 878.18 Mark Cooper <mark@_mcooper.demon.co.uk>
Sparc Ultra II/450 897.84 Darrick Wong <djwong@_thibs.menloschool.org>
Sparc Ultra IIe 1002.70 Elie De Brauwer <elie@_de-brauwer.be>
```

4.13. PowerPC systems

```
System
                      BogoMips Reporter
PowerPC 601
             Mac 33.28 David Wetzel <dave@_turbocat.de>
PowerPC 601/66 Mac 51.62 Fred Klein <klein@_des3.u-strasbq.fr>
PowerPC 601/60 Mac6100 59.38 Kent Radek <goo@_itd.sterling.com>
PowerPC 601/66 Mac7100 65.74 Kenny Gryp <gryp@_dakin.be>
PowerPC 601/75 Mac7200 73.93 Dimitris Tsifakis <jimmy@_typhoeus.dg.uoa.gr>
PowerPC 601/90 Mac7200 89.00 Heinrich H. Beck <thebigduck@_earthlink.net>
PowerPC 601/90 Mac7200 89.50 Ian <ian@_neath.org>
PowerPC 601/100 Mac7500 98.91 Russ Hoffman <reh@_fore.com>
PowerPC 601/110 Mac8100 108 Charles Eicher <ceicher@_inav.net>
PowerPC 601/120 Mac8200 119.19 Roberto Waha <roberto.waha@_rcm.dsi.unimi.it>
PowerPC 603/200
                        11.39 Jan Toonen <jtoonen@_xs4all.nl>
PowerPC 603/300 SM5000 57.00 Brian J. Landsberger <br/> <br/>brian@_landsberger.com>
PowerPC 603/100 66.56 A. Costa <c_chaos@_chaosnet.wahnapitae.on.ca> PowerPC 603/200 PSII 133.12 Richard Heurtley <richard@_heurtley.com>
PowerPC 603ev/250 166.29 Stig Sørensen <stig@_aub.dk>
PowerPC 604/100 PPS6050 99.74 Evaldas Darcianovas <evaldas@_isi.kvm.lt>
PowerPC 604/100 199 Hamish Marson <hamish@_aixrules.nz.ibm.com>
PowerPC 604/100 PPS7248 199.48 Evaldas Darcianovas <evaldas@_isi.kvm.lt>
PowerPC 604/120 Mac8500 239.20 Jason Colflesh <jason.colflesh@_sap.com>
PowerPC 604/120 Mac8500 239.20 James <e5z8652@_mail.com>
PowerPC 604 Mac8500 239.21 Steve <sis132@ psu.edu>
PowerPC 604/120 Mac8500 239.21 Jason Colflesh <jason.colflesh@_sap.com>
PowerPC 604/132 Mac9500 263.78 Matt Templeton <cybear@_pacbell.net>
PowerPC 604/132 Mac7500 263.78 Patrick Murmann <murmann@_mi.uni-erlangen.de>
PowerPC 604/133 MOT PS 266.24 Christoper Harrel <cnh@_eng.mindspring.net>
PowerPC 604/150 Mac9500 297.73 Jean-Philippe Lord <ppl@_binex.com>
PowerPC 604e/300 299 Guido Lehwalder <guido@_lehwalder.de>
                       359.63 Mike Potts <pottsjam@_flyernet.udayton.edu>
PowerPC 604e/195
                       399.76 Griff Miller <griff.miller@_positron.com>
PowerPC 604e/195
PowerPC 604/200 Mac8600 320
                               Julien Sebot <sebot@_lri.fr>
PowerPC 604e/170 PM7300 335.55 Marco van de Voort <marcov@_toad.stack.nl>
PowerPC 604/180 SM900 367.82 J.E. Cook <jcojones@_mail.athen1.ga.home.com>PowerPC 604e/375 RS6000 373.56 Darrick Wong <djwong@_thibs.menloschool.org>
PowerPC 604e/199 398.13 Greg <gkv@_interflight.com>
PowerPC 604e/200 SM4000 399.12 Roland Kuhn <kuhn@_physik.uni-kassel.de>
PowerPC 604e/200 399.76 Alan Galloway <alan@_alangalloway.com>
                   398.13 Greg <gkv@_interflight.com>
465.30 Scot Richardson <scotrich99@_hotmail.com>
PowerPC 750/166
PowerPC 750
PowerPC 750
                      465.31 Neal P Murphy <neal.p.murphy@_alum.wpi.edu>
PowerPC 750/266 Mac 532.48 Fritz Anderson <fritza@_tezcat.com>
PowerPC 750/267 Mac G3 534.61 Hans-Willem Geitz <hw.geitz@_xs4all.nl>
PowerPC 750/195 Mac G3 583.27 <qustilo@_mail.med.upenn.edu>
PowerPC 750/292 Mac 586.38 John McAulay <johnmcaulay@_ndirect.co.uk>
PowerPC 750/300 iBook 589 M. van Steensel <mvanstee@_baserv.uci.kun.nl>
PowerPC 750/333 iMac 665.19 Koyot <koyot@_alpha.pl>
PowerPC G4 350 Mac 400 697.96 Guillame Blain <br/>
<br/>
Slainqu@_iro.umontreal.ca>
PowerPC G3/350 697.96 Juergen Fricke <jofry@_web.de>
PowerPC 750/366 G3 732.36 Mike Hopkins <mhopkins@_netmatters.co.uk>
```

```
        PowerPC G4 Mac8500
        796.26
        Alain Birtz <abz@_videotron.ca>

        PowerPC 750/400 Mac
        796.26
        William F. Adams <willadams@_aol.com>

        PowerPC 750/400 iMac DV 797.90
        Daniel Koerner <wum42@_netscape.net>

        PowerPC G4
        797.90
        P. Radermecker <pradermecker@_iquibec.com>

        PowerPC 750/400 G3
        801.18
        Richard Petty <repetty@_austin.rr.com>

        PowerPC 750/400 G3
        801.18
        Brian Kendig <bri>delight of spinan@_enchanter.net

        PowerPC 750/400 G3
        801.67
        Schmitz <schmitz@_biophys.uni-duesseldorf.de>

        PowerPC G4/500
        992.87
        K. Gustilo <gustilo@_mail.med.upenn.edu>

        PowerPC G4/500
        996.64
        Heinz Nabielek <h.nabielek@_fz-juelich.de>

        PowerPC G3/600
        999.42
        Stephen D. Scotti <sdscotti@_earthlink.net>

        PowerPC 750cx/600 iMac 1198.00
        Jan-Jaap Boor <jjboor@_mac.com>

        PowerPC 750fx/700 G3
        1389.36
        Gurkan Sengun <gurkan@_linuks.mine.nu>

        PowerPC 750fx/900
        1785.85
        Pascal Bourguignon <spam@_thalassa.informatimage.com>

        PowerPC G4/999
        1992.29
        Paula <canthavespam@_yahoo.com>
```

4.14. Other CPU systems: Mips, Intel 8088/286 ELKS, IBM, Transmeta Crusoe, PA-RISC, Hitachi SH, Arm and StrongArm, iDragon, Vax, CRIS Etrax, XScale, Rise

```
BogoMips Reporter
  Mips R3000A/20
                                                                              19.79 Kagstrom <simon.kagstrom.864@_student.lu.se>
  Mips R3000/33 Dec
                                                                                       32.82 Martin Michlmayr <tbm@_cyrius.com>
 Mips R4000/100
Mips R4000SC/100 Indy 49.86 Martin Michlmayr <tbm@_cyrius.com>
Mips R4000/100 Magnum 50.03 Andreas Busse <andy@_soft-n-hard.de>
Mips R4400/134 Acer Pica 67.10 Andreas Busse <andy@_soft-n-hard.de>
Mips R4400/134 Acer Pica 67.10 Ralf Baechle <ralf@_waldorf-gmbh.de>
Mips R4400SC/250 I2 124.92 Martin Michlmayr <tbm@_cyrius.com>
Mips R4600/133 Tyne 133.12 Ralf Baechle <ralf@_waldorf-gmbh.de>
Mips R4600/133 PM200 133.00 Ralf Baechle <ralf@_waldorf-gmbh.de>
                                                                                       48.30 J.L. Brothers <brothers@_halcyon.com>
 Mips R4600/133 RM200 133.08 Ralf Baechle <ralf@_julia.de>
Mips R5000/150 Indy
Mips R5000/180 Indy
Mips R5000/250 RAQ2
Mips R5000/250 RAQ2
Mips R5900 PS2
M
 ELKS Intel 8088/4.77 0.02 Tim Van der Linden <timvdl@_innet.be>
ELKS Intel 8088/10 0.05 Tim Van der Linden <timvdl@_innet.be>
ELKS Intel 8086 0.5 Kin Lau <gabe@_zot.io.org>
ELKS NEC V20/8 0.69 McWilliam <hamishpmcwilliam@_netscape.net>
ELKS Intel 286 Tandy 0.75 Joey Hess <joey@_kite.ml.org>
  ELKS Intel 8086 NecV20/16 0.88 Vasilis Ventirozos <cyberpunk@_freemail.gr>
  ELKS Intel 286 0.99 Anders Stenback <anders.stenback@_gmail.com>
  ELKS Intel 286/8 VAXMate 1.03 Andrew Costa <c_chaos@_wahnapitae.on.ca>
 ELKS Intel 286/10 Comm. 1.30 Hans-Joachim Baader <a href="hans@grumber.inka.de">hans@grumber.inka.de</a>
ELKS Intel 286 PS2 2.32 Morillas C.H. Antonio <a href="mailto:morilla@fie.us.es">morilla@fie.us.es</a>
ELKS Intel 286 PS2 2.34 Joey Hess <joey@_kite.ml.org>
  IBM S390 Gen4
                                                                                         75.16 J Scott <mrbinary@_yahoo.com>
  IBM S390 Gen4 75.16 J Scott <a href="mailto:qrainary@yahoo.com">mrbinary@yahoo.com</a>
IBM S390 R46/500 412.05 Odilon Cirillo <odilon.cirillo@_eds.com>
  Crusoe/400
                                                                                     725.81 Bill Rhodes <wrhodes@_27.org>
                                                                               1182.92 Michael Heiming <mh@_vbag.de>
  Crusoe
  Crusoe TM5600/660 1317.27 Mark Cooper <mark@_mcooper.demon.co.uk>
Crusoe TM5800/1000 1985.74 Mathieu Bois <mathieu.bois@_laposte.net>
```

StrongARM-1110/206	137.21	Jon Ward <aardvark@_fnord.org.uk></aardvark@_fnord.org.uk>
StrongARM-1110/206	137.21	Sander Fransen <sander@_fransen.com></sander@_fransen.com>
StrongARM-1110/206	137.21	Jan walter <jan@_millfilm.co.uk></jan@_millfilm.co.uk>
StrongARM-1110/206	137.21	W Stallwood <wayne@_crimsontechnology.com></wayne@_crimsontechnology.com>
-		
PA-Risc Gecko/60	59.80	Arthur Aldridge <aj@_yasashi.net></aj@_yasashi.net>
PA-Risc 7100LC/100	99.73	Stuart Brady <sdbrady@_ntlworld.com></sdbrady@_ntlworld.com>
PA-Risc 9000/160	319.48	Frank Ickstadt <frank.ickstadt@_btignite.de></frank.ickstadt@_btignite.de>
PA-Risc 7300LC/160	106.49	Peter Whysall <peter.whysall@_ntlworld.com></peter.whysall@_ntlworld.com>
PA-Risc 8200/200	396.28	Jeroen van Ingen <jeroen@_zijndomein.nl></jeroen@_zijndomein.nl>
PA-Risc 8500/400	796.67	Stuart Brady <sdbrady@_ntlworld.com></sdbrady@_ntlworld.com>
PA-Risc 8500/440	880.00	David Atkins <dave@_cypress-tech.com></dave@_cypress-tech.com>
TI ARM/144 Treo600	4.50	Wim van Dorst <wvd@_clifton.nl></wvd@_clifton.nl>
Vax 3100-m38	5.41	<pre>Blaz Antonic <yint@_email.si></yint@_email.si></pre>
Atmel ARM	13.00	Stanley <jstedile@_hotmail.com></jstedile@_hotmail.com>
CL7110/18 ARM710	17.05	<pre>McWilliam <hamishpmcwilliam@_netscape.net></hamishpmcwilliam@_netscape.net></pre>
NEC ARM MC218/37	18.32	Mikko Ristila <mristila@_gmail.com></mristila@_gmail.com>
CRIS Etrax Webcam	99.73	Pat Niemeyer <pat@_pat.net></pat@_pat.net>
Hitachi SH-4/200	199.47	Da Wrecka <da_wrecka@_blueyonder.co.uk></da_wrecka@_blueyonder.co.uk>
Intel XScale Sharp	397.31	John Davies <john.davies@_c24.biz></john.davies@_c24.biz>
iDragon/200	399.76	Princo <hoge@_hogehoge.cc></hoge@_hogehoge.cc>
Rise mp6/200	399.76	Christian Lederer <mail@_cpu-museum.de></mail@_cpu-museum.de>
Intel ARM XScale/416	408.00	Ishikawa Sachihiro <sachihiro@_gmail.com></sachihiro@_gmail.com>

4.15. Dual-CPU systems (SMP2, hyperthreading, Dual core)

```
BogoMips Reporter
System
                      59.50 Michael Engel <engel@_unix-ag.uni-siegen.de>
Dual Pentium/75
Dual Pentium/90
                         71.68 Edwin Whitelaw <elw@_ivc.com>
Dual Pentium/90
                         71.98 Daniel Luhde-Thompson <dl10010@_cam.ac.uk>
                         72.08 Alan Cox <alan@ cymru.net>
Dual Pentium/90
Dual Pentium/100
                         79.46 Lam Dang <dangit@_ix.netcom.com>
Dual Sparc 630MP
                         79.66 Daniel Aubry <daniel.aubry@_unibas.ch>
Dual Pentium/100
                        80.08 Christian Tan <pigeon@_xs4all.nl>
Dual Pentium/100
Dual Pentium/120
                        80.08 McNalley <jmcnalle@_attila.stevens-tech.edu>
                        95.85 Maurice de Bijl <maurice.d.bijl@_topic.nl>
Dual Sparc SS/50-40

Dual Sparc SS/50

Dual Sparc SS/50

Dual Pentium/133

Dual Pentium/166

Dual Sparc SS/50

Paurice de Bijl <maurice.d.bijl@_topic.nl>

Dimitris Tsifakis <svldet@_freemail.gr>

Dual Pentium/166

Maurice de Bijl <maurice.d.bijl@_topic.nl>

Reinhard.Simkovics@_ik_upi-ling_sc_st>
Dual Pentium/133
Dual Pentium/166
Dual Sparc SM71/75
Pentium/200
Dual Pentium/200
Dual Sparc Rosen
                         149.70 C Redmon <credmon@_utk.edu>
                         158.72 Ed Hoppitt <edward@_dcs.rhbnc.ac.uk>
                        158.92 Zeus <heyzeus@@_verios.net>
Dual Sparc RossHS/150 209.71 Nico Will <nicolas.will@_sbcglobal.net>
Dual Pentium Pro/150 299.00 Steven Gallo <smgallo@_numenor.csgeeks.org>
Dual Pentium Pro/150 299.01 Eric van Dijken <E.vanDijken@_PTT-Telecom.nl>
Dual Pentium Pro/166 331.78 Eric van Dijken <E.vanDijken@_PTT-Telecom.nl>
Dual Pentium Pro/180 358.81 Eric van Dijken <E.vanDijken@_PTT-Telecom.nl>
Dual Pentium Pro/180 358.81 Frankie East <fae2401@_rit.edu>
Dual Pentium Pro/180 358.81 James K. Wiggs <wiggs@_wolfenet.com>
Dual Pentium Pro/200 396.25 Will Shaw <shaww@_dialup.dstm.com>
Dual Pentium Pro/200 397.32 Abhijit Menon-Sen <ams@_wiw.org>
Dual Pentium Pro/200 398.13 David Konerding <dek@_cgl.ucsf.edu>
Dual Pentium Pro/200 398.13 Ramon Huerta <huerta@_minerva.ii.uam.es>
Dual Pentium Pro/200 398.14 C.-A. Possamai <camille@_sugiton.cnrs-mrs.fr>
Dual Pentium Pro/200 398.14 Leland Com>
Dual Pentium Pro/200 398.14 John Lellis <lellis@_dmccorp.com>
Dual Pentium Pro/200 398.14 Jim Gifford <jim@_mail.rath.peachnet.edu>
```

```
Dual Pentium Pro/200 398.14 Manuel Galan <root@_ulpgc.es>
   Dual Pentium Pro/200 398.6 Bill Davidsen <davidsen@_tmr.com>
   Dual Pentium Pro/200 398.95 Fons Rademakers <f.rademakers@_cern.ch>
   Dual Pentium Pro/200 398.98 Greg Fausak <glfausak@_august.com>
   Dual Pentium Pro/200 400.18 Attila Karpati <a href="mailto:karpati@cs.elte.hu">karpati@cs.elte.hu</a>
   Dual Pentium Pro/233 464.49 F. Baitinger <baiti@_zenon.toplink.net>
  Dual Pentium II/266

Dual Pentium II/266
                                     531.66 Stefaan A. Eeckels <stefaan.eeckels@_ecc.lu>
   Dual Pentium II/266
   Dual Pentium II/274
   Dual Pentium II/274 546.41 Richard Jellinek <rj@_suse.de>
Dual 21064A/275 AS2000 556.53 Jochen Gatternig <jochen@_gatternig.com>
   Dual Pentium II/300 597.20 Paul Sheer cpsheer@_obsidian.co.za>
   Dual Pentium II/300
                                    598.02 Hans Ameel <hans@_pla.to>
599.66 Abhijit Menon-Sen <ams@_wiw.org>
   Dual Pentium II/300 599.66 Abhijit Menon-Sen <ams@_wiw.org>
Dual Pentium II/300 599.76 S. Curtarolo <auro@_spiro.fisica.unipd.it>
   Dual Pentium II/333 ov 665.73 S. Curtarolo <auro@_spiro.fisica.unipd.it>
   Dual Pentium II/333 665.20 D.A. Sergatskov <dima@_cholla.phys.unm.edu>
   Dual Pentium II/350 697.14 Riley <rhw@_bigfoot.com>
  Dual Pentium II/350 700.42 David Overeem overeem.1@_osu.edu>
Dual Pentium II/350 700.42 Mathijs <matthijs@_helena.tux.nu>
Dual Pentium II/350 700.42 Joe Gray <jgray_111@_yahoo.com>
* Dual Pentium Pro/200 792.48 Eric P. McCoy <emccoy@_hamilton.edu>
* Dual Pentium Pro/200 792.98 David Ewan Kahana <dek@_bnl.gov>
* Dual Pentium Pro/200 793.80 Eric P. McCoy <ctr2sprt@_yahoo.com>
 Dual Pentium MMX/200 794.62 Kristian Koehntopp <kris@_koehntopp.de>
  Dual Pentium MMX/200

Dual Pentium II/400

Dual Pentium II/400

Dual Celeron/400

Dual Celeron/400

Dual Celeron/400

Dual Pentium II/400

To 6.26 Eric Clark <eclark@_opencominc.com>

Michael Necaise <necaise@_jlab.org>

Stuart Hall <stuarthall@_mailandnews.com>

Dual Celeron/400

To 798.21 Stefan Onderka <nop@_gameart.com>

Dual Pentium II/400

To 797.08 Mogens Kjaer <mk@_crc.dk>
   Dual PowerPW 604e/200 797.90 Tom <invalid@_charter.net>
  Dual Pentium II/400 800.20 Simon van Sleuwen <sleuwen@_hotmail.com>
Dual Pentium II/400 800.36 <joachim.j.gloger@_daimlerchrysler.com>
Dual Pentium II/400 800.36 Marcel Lanz <marcel.lanz@_ds9.ch>
Dual Pentium II/400 800.36 Frank <frank@_sazza.ping.de>
Dual Pentium II/400 800.47 Jung Pyo Hong <hongjungpyo@_my-deja.com>
   Dual Pentium II/448 ov 894.57 Rob Leach <dslfreak@_pacbell.net>
   Dual Celeron/450 894.57 Stephan Eisler <stephan@_lingo.gun.sub.org>
   Dual Pentium III/450 899.48 Ramses Smeyers <fatman@_khk.org>
   Dual Pentium III/450 899.48 Roland Exler <r.exler@_jk.uni-linz.ac.at>
   Dual Pentium II/450 901.12 Abhijit Menon-Sen <ams@_wiw.org>
Dual Pentium II/466 925.70 A. Giachino <a.giachino@_ekkinc.com>
   Dual Pentium MMX/233 927.33 Jeff White < jwhite@_ghq.com>
   Dual Pentium III/500 996.14 Ola Samuelson <ola@_datalink.se>
   Dual Pentium III/500 996.15 Rob Green <mooncrow@_lava.net>
   Dual Celeron/500 999.42 Ingimar Rovertsson <iar@_skyrr.is>
Dual Celeron/500 999.42 Rob Farrell <rpf@_speakeasy.net>
   Dual Pentium III/500 999.42 Douglas Osborn <daozb@_earthlink.net>
   Dual Pentium III/500 999.42 Greg M. Hebel <gregh@_twcny.rr.com>
   Dual Celeron/515 overc 1028.92 Ryan Werber <rwerber@_ctel.net>
  Dual Pentium II/266 1066.59 Jacques Rodary <jrodary@_free.fr>
   Dual Celeron/550 overc 1101.00 Olof Zachrisson <eraolza@_ks.ericsson.se>
   Dual Celeron/550 overc 1101.00 John Katagawa <dhc@_50k.com>
   Dual Celeron/550 overc 1101.00 Mattias Moberg <mattias.moberg@_home.se>
   Dual Celeron/550 overc 1101.00 Kieffer <Jerome.KIEFFER@_crans.ens-cachan.fr>
   Dual Celeron/550 overc 1101.00 C. Shenefiel <chris.shenefiel@_bigfoot.com>
   Dual Pentium III/550 1101.00 Jean-David Beyer <jdbeyer@_exit109.com> Dual Pentium III/560 1117.39 Nathan Laredo <laredo@_gnu.org>
   Dual Celeron/563 overc 1120.00 Cecchinel Stephan <inter.zone@_free.fr>
```

```
Dual Sparc USII/296 1182.92 Bill Maloy <maloy@_goldinc.com>
      Dual Celeron/606 overc 1207.50 Mattias Moberg <mattias.moberg@_home.se>
     Dual Pentium III/650 1300.88 Dan Kegel <dank@_alumni.caltech.edu>
   Dual Pentium II/400 1587.60 Bill Maloy <br/>
<br/>
Sill.maloy@_goldinc.com>
     Dual Itanium/800 1593.82 Cipriano Groenendal <cipri@_ezlinux.nl>
   Dual Pentium II/450 1789.13 Steve Snyder <swsnyder@_home.com>
   Dual Pentium III/450 1789.13 J Snowdon <john@_snowdon36.freeserver.co.uk>
     Dual PowerPC 7400/450 1789.63 Jake Goulding <shepmaster@_home.com>
   Dual Celeron/466 1857.94 Dominic.Baines <dombaines@mmbq.demon.co.uk>
    Dual Pentium III/500 1988.60 Francisco Romo Alfaro <fcoromo@_opensys.com.mx>
    Dual Celeron/500 1998.84 Rob Farrell <rpf@_comcast.net>
Dual Celeron/533 2117.63 Reine Johansson <br/>
Sprain@_bredband.net>
                                                          1998.84 Rob Farrell <rpf@_comcast.net>
    Dual Pentium III/1100 2194.23 Jean-David Beyer <jdbeyer@_exit109.com>
Dual Pentium III/560 2202.00 <ekk@_ekkinc.com>
Dual Pentium III/560 2238.05 David Yeung <dyeung@_ust.hk>
     Dual Pentium III/600 2401.89 Shawn Hicks <shicks@_impulse.net>
     Dual Pentium III/600 2401.89 John Wiggins <jwiggins@_csce.uark.edu>
    Dual Pentium III/750 2992.90 George Hauser <hausergj@_pop.nwnexus.com>
* Dual Pentium III/750 3001.55 Jesse Tie Ten Quee <tie@_mountlinux.com>
     Dual Pentium Pro/800 3181.77 NN <ulisses@_pusa.informat.uv.es>
* Dual Pentium III/800 3188.32 Daniel Path <danielp@_r-medialine.hu>
* Dual Pentium III/800 3188.33 Steve Bradtke <sjbradtke@_home.com>
* Dual Pentium III/800 3201.43 Paul Skinner <pskinner@_hrsg.ca>
* Dual Pentium III/810 3234.20 Pietro Abate <abate@_students.cs.unibo.it>
     Dual EV67/833 UP2000 3324.17 Rob Harley <robert.harley@_inria.fr>
* Dual Pentium III/850 3407.86 Michael Cohen <me@_ohdarn.net>
   Dual Pentium III/866 3466.85 Tommy Johansen <tommy.johansen@_idemitsu.no>
   Dual Pentium III/933 3742.10 Justin Baugh <bay>
daughj@_cs.rpi.edu>
     Dual PowerPC G4/1400 2831.15 Bill Maloy <br/>
<br/>
Sill Maloy <br/>
Sill Maloy <br/>
G1/1400 2831.15 Bill Maloy <br/>
Sill M
   Dual Pentium III/1000 3984.58 Kenny Gryp <gryp@_dakin.be>
   Dual Pentium III/1000 3991.14 Guy Tel-Zur <tel-zur@_computer.org>
     Dual Pentium III/1000 4004.25 Birko Bergt <br/>
Syrko.bergt@_syntegra.com>
     Dual Pentium III/1000 4010.80 Andy Vlassov <andreyv@_ece.ubc.ca>
     Dual Pentium III/1133 4508.86 Umaid Rajpurohit <sunadm@_rediffmail.com>
Dual Pentium III/1133 4508.87 S Bozovicar <silvo.bozovicar@_hermes-plus.si>
Dual Pentium III/1133 4521.98 Ralf Buchwald <ralf@_iehk.rwth-aachen.de>
     Dual Pentium III/1266 5052.81 Sandy Harris <sandy@_storm.ca>
     Dual Athlon/1400 5590.21 Dominic.Baines <dombaines@mmbq.demon.co.uk>
* Dual Athlon/1400 5590.22 Paul Skinner 
ca>
to Dual Athlon/1400 5590.22 Matthew Anderson <matt@_alameda-systems.com>
to Dual Athlon/1400 5590.22 Matthew Anderson <matter <
* Dual Athlon/1400
                                                        5590.22 Pierre Vignéras <vigneras@_labri.fr>
     Dual Opteron/1600 6340.60 Thomas Whaples <tom@_eh.net>
Dual Athlon/1600 6442.18 Rick H. Wesson <wessorh@_ar.com>
* Dual Athlon/1600
     Dual Opteron/2000
                                                        7921.66 Tero Hiekkalinna <tero.hiekkalinna@_helsinki.fi>
      Dual Xeon/2000
                                                        7956.06 Dave Gilligan <glogy@_glogy.com>
      Dual Opteron/2200 ht 8808.02 Christian Lederer <mail@_cpu-museum.de>
      Dual Athlon 64/2200 ht 8817.46 Tim Kirk <kirk@_ysbl.york.ac.uk>
      Dual Athlon 64/2200 ht 8822.12 Vinu Moses <vinumoses@_yahoo.com>
      Dual Athlon 64/2200 ht 8850.66 Janis Danisevski <werwurm@_snafu.de>
     Dual Opteron/2400 9486.32 Francisco Romo <fcoromo@_opensys.com.mx>
Dual Xeon/2800 11154.22 Paolo Cravero <paolo.cravero@_csi.it>
                                                    12202.80 Bill Maloy <bill.maloy@_goldinc.com>
12730.36 James <james@_introverted.com>
12805.83 NN <get-off-my-cloud@_usa.net>
      Dual Xeon/3060
      Dual P4/3200 ht
Dual P4/3200 ht
     Dual Xeon/3400 13500.41 Robert Atwood <r.atwood@_imperial.ac.uk>
Dual P4/3400 ht 13533.18 Jurek Bartuszek <koxta@_koxta.net>
Dual Xeon/3600 14319.61 Hai Zaar <a href="mailto:koxta.net">haizaar@_gmail.com>
Dual Xeon/2000 ht 15925.22 Dave Gilligan <glogy@_glogy.com>
      Dual Opteron/2200 ht 17481.72 Francisco Romo <fcoromo@_opensys.com.mx>
      Dual Xeon/2400 ht 19031.64 Vasilis Ventirozos <cyberpunk@_freemail.gr> Dual Xeon/2660 ht 21338.52 Dave Whiteside <strangelite@gmail.com>
      Dual Xeon/2700 ht 21495.80 Francisco Romo <fcoromo@_opensys.com.mx>
```

```
Dual Xeon/2800 ht 22282.24 John Davies <john.davies@_c24.biz>
Dual Xeon/3000 ht 23907.52 Paul Skinner ca>
Dual Xeon/3060 ht 24379.39 Brian Wheeler <bdwheele@_indiana.edu>
```

4.16. Multi-CPU systems (SMP4, Beowulf, others)

```
SMP4 Sparc SM100/40 159.64 C Redmon <credmon@_utk.edu>
 SMP4 Pentium Pro/133 532.07 Erik Walthinsen <omega@_sequent.com>
 SMP4 Pentium Pro/200 794.62 Kenneth Hedlund <c415khd@_nll.se>
 SMP4 Pentium Pro/200 796.28 John Pelan <j.pelan@_am.qub.ac.uk>
SMP4 Pentium/133 1064.14 Arthur Aldridge <monark@_aracnet.com>
SMP4 Pentium/200 1598.25 Arthur Aldridge <aj@_yasashi.net>
 SMP4 Pentium III/450 1794.00 Glenn Stone <glenns@_ami.com>
 SMP4 Pentium III/550 2195.46 Yan P Yuan <yanping.yuan@_embl-Heidelberg.de>
 SMP4 Alpha EV5/300 2393.60 Daniel Aubry <daniel.aubry@_sygroup.ch> SMP4 Itanium/800 3189.20 Bacsi Roland <br/> Should be a subry@_sygroup.ch>
SMP4 Alpha EV5/300
SMP4 Itanium/800
SMP4 Itanium/995
SMP4 Xeon/1500
SMP4 Xeon/2200
SMP4 Xeon/2400
SMP4 Xeon/2660
SMP4 Xeon/2660
SMP4 Xeon/2800
SMP4 Xeon/3000 ht
 SMP8 Pentium III/500 3996.06 Richard Langis <rlangis@_primux.geekfest.net>
 SMP6 SunUltraII/336 4030.46 Daniel James <astac@_swbell.net>
 SMP14 SparcII
                                   6927.16 Vassili Tchersky <vt@_bsdjeunz.org>
 SMP31 EV67/731 Wildf. 46170.90 Peter Rival <frival@_zk3.dec.com>
 SMP32 IBM Power5/1656 26368.00 Christian Lederer <mail@_cpu-museum.de>
 SMP8 Xeon/1600 51052.50 Michael Heiming <michael@ heiming.de>
 Myrinet144 PII/400 57684.96 <zumbusch@_iam.uni-bonn.de>
 SMP8 Xeon/3000 ht 95839.84 James <james@_introverted.com>
 Beowulf102 PIII/1000 203862.30 Dan Kirkpatrick <dkirk@_physics.syr.edu>
```

4.17. Non-Linux systems (reference only)

System	OS	BogoMips	Reporter
Casio 9850g calculator	Casio	0.000027	<u>*</u>
Commodore 64	VICE	0.0033	<bddvheele@_indiana.edu></bddvheele@_indiana.edu>
Z80 TRS80 model 4	TRSDOS	0.004	<pre><cervasio@_airmail.net></cervasio@_airmail.net></pre>
Z80/4.6 NC100	ZCN	0.013	<rus@_forfree.at></rus@_forfree.at>
Saturn/3.9 HP48S	none	0.196	<pre><samuel.thibault@_ens-lyon.fr></samuel.thibault@_ens-lyon.fr></pre>
Saturn/7.8 HP48G	none	0.271	<pre><samuel.thibault@_ens-lyon.fr></samuel.thibault@_ens-lyon.fr></pre>
Saturn/7.8 HP49G	none	0.321	<pre><samuel.thibault@_ens-lyon.fr></samuel.thibault@_ens-lyon.fr></pre>
68000/8 Macintosh Classic	MacOS	0.53	<pre><jimmy@_typhoeus.dg.uoa.gr></jimmy@_typhoeus.dg.uoa.gr></pre>
ARM9/75 HP49G+	none	1.335	<pre><samuel.thibault@_ens-lyon.fr></samuel.thibault@_ens-lyon.fr></pre>
68020/20 Sun 3	SUNOS	2.0	<pre><korpela@_ssl.berkeley.edu></korpela@_ssl.berkeley.edu></pre>
Intel 386SX/16	MSDOS	2.00	<pre><hamishpmcwilliam@_netscape.net></hamishpmcwilliam@_netscape.net></pre>
68EZ328/20 Palm Vx	PalmOS	2.53	<dv5a@_dc.uba.ar></dv5a@_dc.uba.ar>
Microvax 3100-30	NetBSD	2.74	<goodman@_goodman.hu></goodman@_goodman.hu>
ARM ARM250/12	RISCOS	2.95	<pre><hamishpmcwilliam@_netscape.net></hamishpmcwilliam@_netscape.net></pre>
68020/16 Macintosh LC	MacOS	3.09	<pre><jimmy@_typhoeus.dg.uoa.gr></jimmy@_typhoeus.dg.uoa.gr></pre>
68020/25 Sun 3-180	SUNOS	4.0	<pre><korpela@_ssl.berkeley.edu></korpela@_ssl.berkeley.edu></pre>
Sparc Sun 3-60	SUNOS	4.00	<tranter@_software.mitel.com></tranter@_software.mitel.com>
Sparc Sun 3-80	SUNOS	4.00	<tranter@_software.mitel.com></tranter@_software.mitel.com>
PalmOne Treo 600	PalmOS	4.50	<pre><wvd@_clifton.nl></wvd@_clifton.nl></pre>

Vaxstation 3100 M38	VAXVMS	4.66	<bddwheele@_indiana.edu></bddwheele@_indiana.edu>
68030/25 Macintosh IIci	NetBSD	5.62	<kirk-corey@_uiowa.edu></kirk-corey@_uiowa.edu>
AMD 386DX/40	MSDOS	8.03	<pre><hamishpmcwilliam@_netscape.net></hamishpmcwilliam@_netscape.net></pre>
68040/25 Macintosh LC475	MacOS	12.27	<pre><jimmy@_typhoeus.dg.uoa.gr></jimmy@_typhoeus.dg.uoa.gr></pre>
68040/33 HP9000-280	HP-UX	14	<pre><niles@_axp745.gsfc.nasa.gov></niles@_axp745.gsfc.nasa.gov></pre>
68040/25 Apollo 5500	DomainOS	14.00	<kirk-corey@_uiowa.edu></kirk-corey@_uiowa.edu>
Sparc Sun 4-280/20	SUNOS	16.0	<korpela@_ssl.berkeley.edu></korpela@_ssl.berkeley.edu>
Sparc Sun IPC/40	Solaris	16.00	<gong@_cs.msu.su></gong@_cs.msu.su>
68040/25 HP9000-425	DomainOS	16.00	<kirk-corey@_uiowa.edu></kirk-corey@_uiowa.edu>
68040 NextStep	(?)	16.26	<pre><petergun@_coffeehaus.com></petergun@_coffeehaus.com></pre>
Sparc Sun SS1	SUNOS	18.00	<tranter@_software.mitel.com></tranter@_software.mitel.com>
Sparc Sun SS1	SUNOS	18.00	<pre><jimmy@_typhoeus.dg.uoa.gr></jimmy@_typhoeus.dg.uoa.gr></pre>
IBM RS6000 320	AIX	18.00	<mg@_svtpc3.fb12.tu-berlin.de></mg@_svtpc3.fb12.tu-berlin.de>
ARM ARM710/40	RISCOS	18.43	<pre><hamishpmcwilliam@_netscape.net></hamishpmcwilliam@_netscape.net></pre>
Sparc Sun SS1+	SUNOS	19	<pre><swmike@_uplift.df.lth.se></swmike@_uplift.df.lth.se></pre>
Sparc Sun SS1+	SUNOS	24.00	<tranter@_software.mitel.com></tranter@_software.mitel.com>
Sparc Sun IPC	SUNOS	24.00	<tranter@_software.mitel.com></tranter@_software.mitel.com>
IBM RS6000 320H	AIX	24.00	<mg@_svtpc3.fb12.tu-berlin.de></mg@_svtpc3.fb12.tu-berlin.de>
Sparc Sun Sparcstation2	SUNOS	26.00	<pre><gong@_cs.msu.su></gong@_cs.msu.su></pre>
SparcClassic/50	Solaris	32.00	<pre><qonq@_cs.msu.su></qonq@_cs.msu.su></pre>
Sparc Sun ELC	SUNOS	32.00	<pre><tranter@_software.mitel.com></tranter@_software.mitel.com></pre>
HP-PA 9000-720	HP-UX	32.00	<metod.kozelj@_rzs-hm.si></metod.kozelj@_rzs-hm.si>
Sparc Sun SS10	SUNOS	34.00	<pre><tranter@_software.mitel.com></tranter@_software.mitel.com></pre>
Sparc Sun SS10	SUNOS	34.00	<pre><makler@_man.torun.pl></makler@_man.torun.pl></pre>
Pentium/100	Win-NT	36.21	<pre><marcus@ healthchex.com=""></marcus@></pre>
Sparc Sun Sparcstation2	SUNOS	38.0	<pre><korpela@_ssl.berkeley.edu></korpela@_ssl.berkeley.edu></pre>
Intel Pentium/100	Beos5	38.50	<pre><hamishpmcwilliam@_netscape.net></hamishpmcwilliam@_netscape.net></pre>
Intel Pentium/100	WinNT4	39.66	<pre><hamishpmcwilliam@_netscape.net></hamishpmcwilliam@_netscape.net></pre>
Intel Pentium/100	FreeBSD	40.32	<pre><hamishpmcwilliam@_netscape.net></hamishpmcwilliam@_netscape.net></pre>
Intel Pentium/100	MSDOS	40.71	<pre><hamishpmcwilliam@_netscape.net></hamishpmcwilliam@_netscape.net></pre>
Mips R4000/100 Indy	(?)	48.00	<pre><p.verwer@_organon.akzonobel.nl></p.verwer@_organon.akzonobel.nl></pre>
Mips R4000/100 SGI IndySC	Irix	48.00	<pre><lziegler@_csbsju.edu></lziegler@_csbsju.edu></pre>
HP-PA 9000-720	HP-UX	48.00	<pre><metod.kozelj@_rzs-hm.si></metod.kozelj@_rzs-hm.si></pre>
Sparc SS10	SUNOS	48.00	<makler@_man.torun.pl></makler@_man.torun.pl>
IBM RS-6000-250/66	AIX	52.00	<pre><gl23@_e4.hrz.uni-giessen.de></gl23@_e4.hrz.uni-giessen.de></pre>
Sparc Sun Sparcstation10d	SUNOS	54.0	<pre><korpela@_ssl.berkeley.edu></korpela@_ssl.berkeley.edu></pre>
Sparc SS1000 2CPU	SUNOS	58.00	<pre><qonq@_cs.msu.su></qonq@_cs.msu.su></pre>
Sparc SS20	SUNOS	60.00	<pre><makler@_man.torun.pl></makler@_man.torun.pl></pre>
IBM RS6000-250/80	AIX	62.00	<pre><gl23@_e4.hrz.uni-giessen.de></gl23@_e4.hrz.uni-giessen.de></pre>
Alpha 21064/133 Decstation	OSF1	64	<pre><niles@_axp745.gsfc.nasa.gov></niles@_axp745.gsfc.nasa.gov></pre>
Alpha 21064/133 Dec3000	OSF1	66.00	<pre><daniels@_helplaxp1.harvard.edu></daniels@_helplaxp1.harvard.edu></pre>
Sparc Sun SS5	SUNOS	68.00	<pre><tranter@_software.mitel.com></tranter@_software.mitel.com></pre>
Sparc Sun SS20	SUNOS	72.00	<pre><tranter@_software.mitel.com></tranter@_software.mitel.com></pre>
Sparc Sun SS20/712	Solaris	74	<pre><spohr@_qmos.com></spohr@_qmos.com></pre>
Mips R4400/150 Challenge	(?)	74.00	<pre><p.verwer@_organon.akzonobel.nl></p.verwer@_organon.akzonobel.nl></pre>
Mips R4400/150 Indigo2Extr	(?)	74.00	<pre><p.verwer@_organon.akzonobel.nl></p.verwer@_organon.akzonobel.nl></pre>
HP-PA 9000-715	HP-UX	74.00	<pre><metod.kozelj@_rzs-hm.si></metod.kozelj@_rzs-hm.si></pre>
Centaur C6/200	WinNT4	77.00	<pre><hamishpmcwilliam@_netscape.net></hamishpmcwilliam@_netscape.net></pre>
Centaur C6/200	Win98	78.48	<pre><hamishpmcwilliam@_netscape.net></hamishpmcwilliam@_netscape.net></pre>
Centaur C6/200	MSDOS	78.79	<pre><hamishpmcwilliam@_netscape.net></hamishpmcwilliam@_netscape.net></pre>
Centaur C6/200	Win95	78.81	<pre><hamishpmcwilliam@_netscape.net></hamishpmcwilliam@_netscape.net></pre>
Sparc SS5 sun4m	SUNOS	84.00	<pre><chrisv@_allegria.com></chrisv@_allegria.com></pre>
Sparc SS1000E	SUNOS	84.00	<pre><makler@_man.torun.pl></makler@_man.torun.pl></pre>
Alpha	OSF1	92.00	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>
Mips R4400/200 Indigo2Extr	(?)	98.00	<pre><pre><p.verwer@_organon.akzonobel.nl></p.verwer@_organon.akzonobel.nl></pre></pre>
HP-PA 9000-735/99	HP-UX	98.00	<pre><pre><pre><pre><pre><lankhors@_cs.rug.nl></lankhors@_cs.rug.nl></pre></pre></pre></pre></pre>
Sparc SS5	SUNOS	104.00	<pre><makler@_man.torun.pl></makler@_man.torun.pl></pre>
Sparc Sun SS4/110	Solaris	104.00	<pre><makiere_man.corum.pr> <spohr@_qmos.com></spohr@_qmos.com></makiere_man.corum.pr></pre>
Sparc Sun SS4	Solaris	108.00	<pre><jimmy@_typhoeus.dg.uoa.gr></jimmy@_typhoeus.dg.uoa.gr></pre>
Sparc Sun SS5	SUNOS	110	<pre><swmike@_uplift.df.lth.se></swmike@_uplift.df.lth.se></pre>
Alpha 21064A/233	OSF1	114	<pre><niles@_axp745.gsfc.nasa.gov></niles@_axp745.gsfc.nasa.gov></pre>
Alpha 3000 21064/300	OSF1	120.00	<pre><gl23@_e4.hrz.uni-giessen.de></gl23@_e4.hrz.uni-giessen.de></pre>
111piia 3000 21004/300	0011	120.00	'y_Loc_c i. III L. uni y 1000cii. uc/

HP-PA 700/125	HP-UX	122	<pre><niles@_axp745.gsfc.nasa.gov></niles@_axp745.gsfc.nasa.gov></pre>
HP-PA 9000-735/125	HP-UX	122.00	<pre><lankhors@_cs.rug.nl></lankhors@_cs.rug.nl></pre>
Mips R4600/133 SGI Indy	Irix	132	<lziegler@_csbsju.edu></lziegler@_csbsju.edu>
MIPS R5000/150	Irix	148.00	<pre><nachiket@_indimax.hydroqual.com></nachiket@_indimax.hydroqual.com></pre>
IBM 6x86	OS/2	149.13	<pre><mikedg@_ghostbbs.pandora.it></mikedg@_ghostbbs.pandora.it></pre>
Alpha	OSF1	180.0	<pre><mauger@_ensinfo.univ-nantes.fr></mauger@_ensinfo.univ-nantes.fr></pre>
MIPS R10000/195	Irix	194.00	<pre><nachiket@_indimax.hydroqual.com></nachiket@_indimax.hydroqual.com></pre>
Alpha 21164/333 AS500	OSF1	222.00	<pre><daniels@_helplaxp1.harvard.edu></daniels@_helplaxp1.harvard.edu></pre>
Sparc Ultra-1 sun4u	Solaris	254.00	<alternat@_rwth-aachen.de></alternat@_rwth-aachen.de>
PPC604/133 IBM RS6000	AIX	254.00	<kirk-corey@_uiowa.edu></kirk-corey@_uiowa.edu>
IBM RS-6000 43P powerpc	AIX	260.00	<gl23@_e4.hrz.uni-giessen.de></gl23@_e4.hrz.uni-giessen.de>
Sparc U-1 sun4u	SunOS	284.00	<gl23@_e4.hrz.uni-giessen.de></gl23@_e4.hrz.uni-giessen.de>
Alpha 21164/433 DPW433au	OSF1	286.00	<pre><daniels@_helplaxp1.harvard.edu></daniels@_helplaxp1.harvard.edu></pre>
HP9000-C160/160	HP-UX	316.00	<pre><nicolai@_prz.tu-berlin.de></nicolai@_prz.tu-berlin.de></pre>
Intel Pentium MMX/166	Beos5	327.96	<pre><hamishpmcwilliam@_netscape.net></hamishpmcwilliam@_netscape.net></pre>
Intel Pentium MMX/166	Win98	328.36	<pre><hamishpmcwilliam@_netscape.net></hamishpmcwilliam@_netscape.net></pre>
Sparc Sun US1/170	Solaris	330	<pre><spohr@_qmos.com></spohr@_qmos.com></pre>
Sparc Sun US1/167	Solaris	330	<pre><jimmy@_typhoeus.dg.uoa.gr></jimmy@_typhoeus.dg.uoa.gr></pre>
Intel Pentium MMX/166	WIN95	331.40	<pre><hamishpmcwilliam@_netscape.net></hamishpmcwilliam@_netscape.net></pre>
Sparc Ultra-1 sun4u	SUNOS	334.00	
Intel Pentium MMX/166	MSDOS	336.93	<pre><hamishpmcwilliam@_netscape.net></hamishpmcwilliam@_netscape.net></pre>
Alpha 3000-600S	VMS	348.61	
AMD Duron/750	BeOS5	372.05	<pre><hamishpmcwilliam@_netscape.net></hamishpmcwilliam@_netscape.net></pre>
Alpha server 1000-4/200	VMS	397.68	
Sparc Sun-Ultra30/248	Solaris	482.00	<pre><marc.quinton@_stna.dgac.fr></marc.quinton@_stna.dgac.fr></pre>
Intel Celeron/500	MSDOS	488.55	
Intel Celeron/500	BeOS5	494.81	
Intel Celeron/500	WinNT4	496.18	<pre><hamishpmcwilliam@_netscape.net></hamishpmcwilliam@_netscape.net></pre>
Alpha 21164A/533 PC164LX	NetBSD	531.55	
Pentium II/350	Win2000	573.00	<pre><benjy@_kateandbenjy.com></benjy@_kateandbenjy.com></pre>
Sparc US2/296 2cpu	SUNOS	596.00	31 - 31
AMD Duron/750	MSDOS	723.78	<pre><hamishpmcwilliam@_netscape.net></hamishpmcwilliam@_netscape.net></pre>
AMD Duron/750	Win98	745.65	
PowerPC G3/600	MacOSX	789.51	
Intel Pentium III/800	Win98	795.36	<pre><hamishpmcwilliam@_netscape.net></hamishpmcwilliam@_netscape.net></pre>
Intel Pentium III/800	MSDOS	814.25	
Intel Pentium III/866	MSDOS	849.65	
Cray J90 Y-MP/100 16cpu	Unicos	912.00	· - · · ·
Sequent Symmetry 6xP5/166	Dynix	984.00	· -
Sequent Symmetry 16xP5/66	Dynix	1056.00	
HP9000-C160/160	HP-UX	1278.00	
Sequent NUMA-Q 12x P6/180	Dynix	1416.00	- -
Pentium III/800	Win NT	2267.00	<pre><benjy@_kateandbenjy.com></benjy@_kateandbenjy.com></pre>
Sequent NUMA-Q 32x P6/180	Dynix	3776.00	<pre><omega@_sequent.com></omega@_sequent.com></pre>
204 acre 110111 & 221 10/100	~ y 11 ± 25	0,,0.00	·oogac_ooqaono.oom

5. Signature

Isolde has now entered the age where reading and sending e-mail is so paramount that Dad must hand in his laptop during all daytime for this purpose. And if she isn't at it, her brother Roderick can spent the rest of the daylight time (and nighttime if we would allow him) at computer games, fortunately of the age-nine-approved type. But his is being caught up by his little sister, who now at the age of six can read all Dutch words that come before her eyes, on whichever medium, just like her siblings. Where did they get these voracious reading habits? Would having 500+ books in the living room have anything to do with it?

Met vriendelijke groeten, Wim 'Dad' van Dorst.

Wim van Dorst, Clifton Scientific Text Services, tel/fax +31 355 242 319

This sentence have three erors

5. Signature 40