SPEC CFP95rate Results

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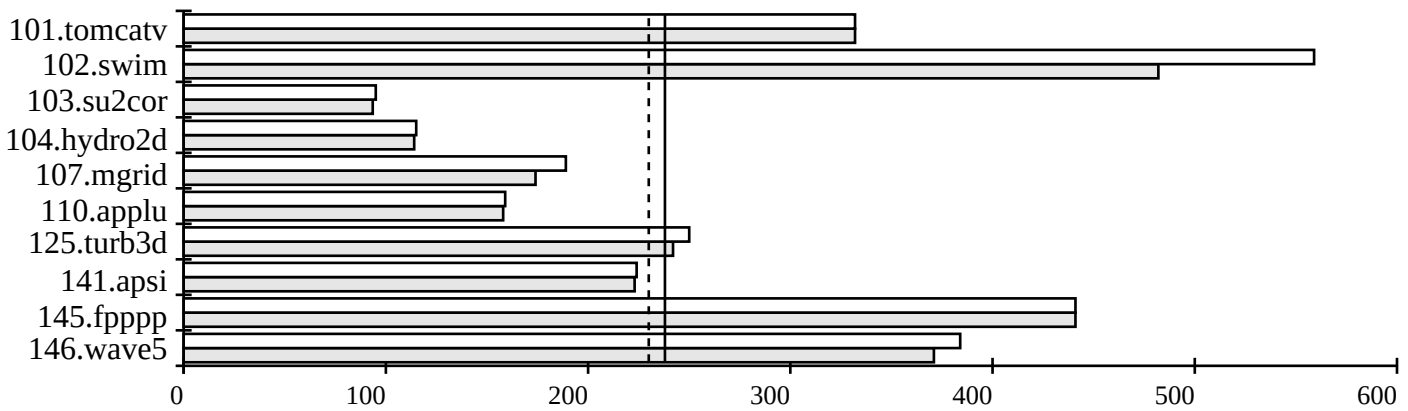
Hewlett-Packard
HP 9000 Model K410 4-CPU

SPECfp_rate95 = 238

SPECfp_rate_base95 = 230

SPEC license # 3	Tested By: HP Cupertino, CA	Test Date: Aug-96	Hardware Avail: Jan-96	Software Avail: Sep-96



Hardware/Software Configuration for:
HP 9000 Model K410 4-CPU

Hardware

Model Name:	HP 9000 Model K410 4-CPU
CPU:	120 MHz PA-RISC 7200
FPU:	Integrated
Number of CPU(s):	4
Primary Cache:	256KBI+256KBD off-chip
Secondary Cache:	None
Other Cache:	None
Memory:	512MB
Disk Subsystem:	1 Fast/Wide SCSI-2 1.0 GB
Other Hardware:	None

Software

Operating System:	HP-UX B.10.20
Compiler:	HP FORTRAN B3906AA B.10.20.01
File System:	HP-UX
System State:	Multi-user

Benchmark # and Name	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
101.tomcatv	4	401	332	4	401	332
102.swim	4	642	482	4	554	559
103.su2cor	4	539	93.5	4	531	95.0
104.hydro2d	4	761	114	4	754	115
107.mgrid	4	518	174	4	475	189
110.applu	4	500	158	4	498	159
125.turb3d	4	611	242	4	590	250
141.apsi	4	339	223	4	338	224
145.fpppp	4	784	441	4	784	441
146.wave5	4	291	371	4	282	384
SPECfp_rate_base95 (G. Mean)			230			
SPECfp_rate95 (G. Mean)						238

Notes/Tuning Information

```
Base Flags:
All:  +Oall
Linker Flag:  All: -Wl, -a,archive

Peak Flags:
101: +Oall +Oloop_unroll +Onolimit +Oregionsched +Ovectorize +DC7200 +I/+P
102: +Oall +Ocache_pad_common +Odataprefetch +Ofltacc +Oinline_budget=256000 +Olibcalls +Oloop_transform +DC7200 +I/+P
+Onofastaccess +Onoinitcheck +Onoloop_unroll +Onosize +Oregionsched +I/+P
103: +Oall +Ofastaccess +Olibcalls +Oloop_unroll +Onofltacc +Onolimit +I/+P
104: +Oall +Oloop_unroll +Owhole_program_mode +I/+P
107: +O3 +Oinline_budget=256000 +Oloop_unroll +Onofltacc +Onolimit
110: +Oall +Onofastaccess
125: +O3 +Olibcalls +Onofltacc +Onolimit +Onoloop_unroll +DC7200
141: +Oall +Onofastaccess +DC7200
145: +Oall
146: +O3 +Olibcalls +Oloop_unroll +Onofltacc +Onolimit
Linker Flag:  All: -Wl, -a,archive

Note: The +I/+P indicates the use of profile based optimization.
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-- Prepared By: --