SPEC CFP95rate Results

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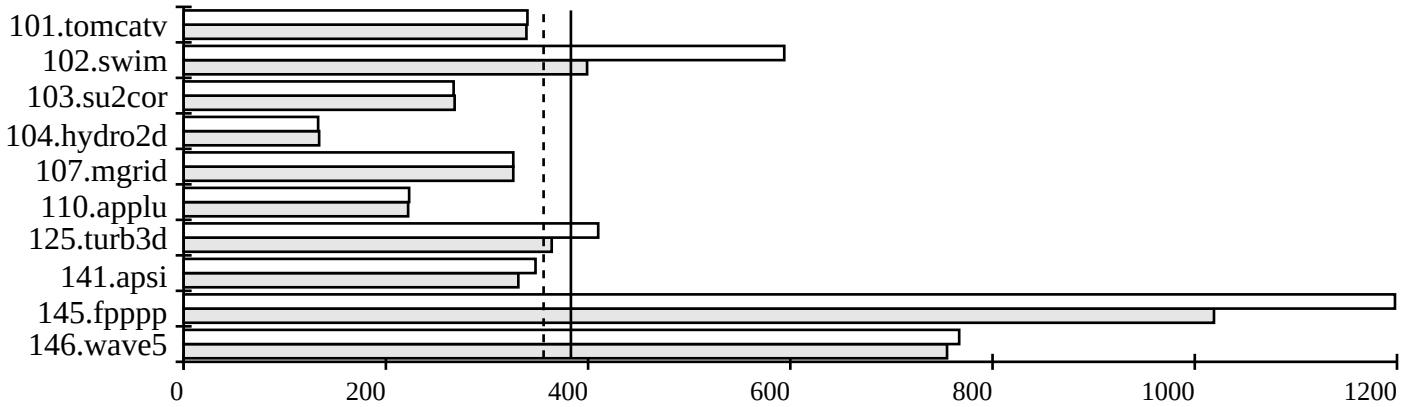
Hewlett-Packard
HP 9000 Model K450 4-CPU

SPECfp_rate95 = 383

SPECfp_rate_base95 = 356

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



Hardware/Software Configuration for:
HP 9000 Model K450 4-CPU

Hardware

Model Name:	HP 9000 Model K450 4-CPU
CPU:	160 MHz PA-RISC 8000
FPU:	Integrated
Number of CPU(s):	4
Primary Cache:	1MBI+1MBD off-chip
Secondary Cache:	None
Other Cache:	None
Memory:	2GB
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	393	339	4	392	340
102.swim	4	777	399	4	521	594
103.su2cor	4	188	268	4	189	267
104.hydro2d	4	646	134	4	647	133
107.mgrid	4	276	326	4	276	326
110.applu	4	356	222	4	355	223
125.turb3d	4	405	364	4	360	410
141.apsi	4	228	331	4	217	348
145.fpppp	4	339	1019	4	288	1198
146.wave5	4	143	755	4	141	767
SPECfp_rate_base95 (G. Mean)			356			
		SPECfp_rate95 (G. Mean)				383

Notes/Tuning Information

```
Base Flags:
All:  +Oall +Odataprefetch
Linker Flag:  All: -Wl,-aarchive

Peak Flags:
101: +O3 +Odataprefetch +Oloop_unroll +Onolimit +Oregionsched +Ovectorize
102: +O4 +Ocachepadcommon +Odataprefetch +Oloop_unroll
103: +O2 +Odataprefetch +Ofastaccess +Olibcalls +Oloop_unroll +Onofltacc +Onolimit
104: +Oall +Odataprefetch +Oloop_unroll +Owhole_program_mode
107: +O3 +Odataprefetch +Oinline_budget=1000000 +Oloop_unroll +Onofltacc +Onolimit
110: +O3 +Odataprefetch +Oloop_unroll +Onofltacc
125: +O3 +Ocachepadcommon +Olibcalls +Onofltacc +Onolimit +Onoloop_unroll
141: +Oall
145: +O4 +Oinline_budget=1000000 +Olibcalls +Onofltacc +Onolimit +Onoloop_unroll +Ovectorize +I +P
146: +O3 +Odataprefetch +Olibcalls +Oloop_unroll +Onofltacc +Onolimit
Linker Flag:  All: -Wl,-aarchive

The +I/+P indicates the use of profile based optimization.
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