SPEC CINT95rate Results

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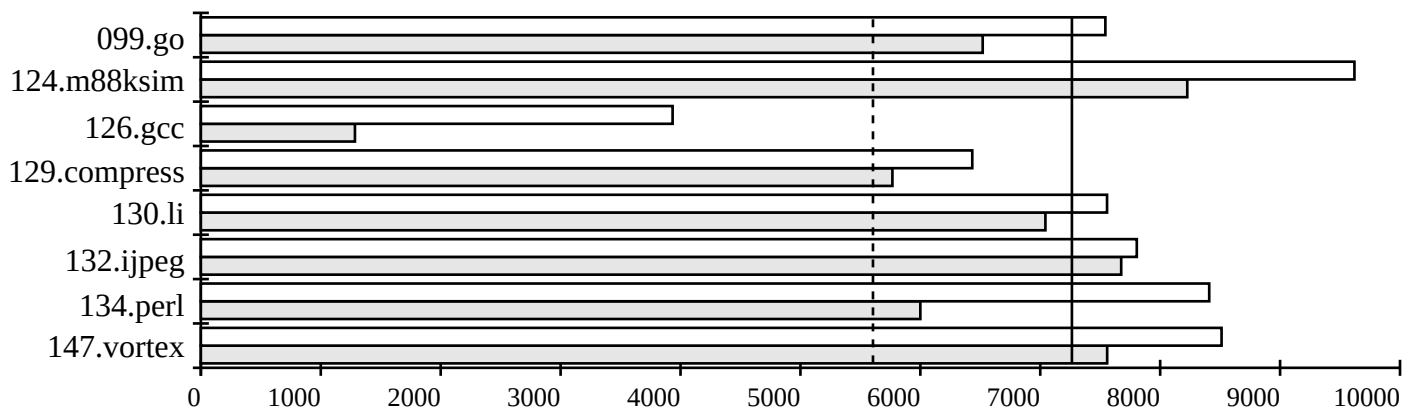
Compaq Computer Corporation
AlphaServer HPC320 Model 6/500

SPECint_rate95 = 7264

SPECint_rate_base95 = 5605

SPEC license # 2	Tested By: Compaq NH	Test Date: Feb-2000	Hardware Avail: May-1999	Software Avail: Jul-2000



Hardware/Software Configuration for:
AlphaServer HPC320 Model 6/500

Hardware

Model Name:	AlphaServer HPC320 Model 6/500
CPU:	500 MHz 21264
FPU:	Integrated
Number of CPU(s):	32, 8 nodes x 4 each
Primary Cache:	64KB(I)+64KB(D) on chip
Secondary Cache:	4MB off chip per cpu
Other Cache:	none
Memory:	Nodes 0-6 @ 4GB, 6-7 @ 16GB
Disk Subsystem:	24x9GB (10,000 RPM) 4x sw stripe x 6x RAID0 hw stripe 2 HSG80 controllers
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX X4.0F
Compiler:	Compaq C X6.3-018-44A1V protect_headers_setup.sh cc.alt/om 27-Jan-1999
File System:	UFS
System State:	Multi User

Benchmark # and Name	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
099.go	32	203	6520	32	176	7543
124.m88ksim	32	66.5	8226	32	57	9620
126.gcc	32	381	1285	32	124	3934
129.compress	32	89.9	5767	32	81	6433
130.li	32	77.7	7043	32	72	7557
132.ijpeg	32	90.1	7675	32	89	7805
134.perl	32	91.2	6000	32	65	8409
147.vortex	32	103	7558	32	91	8512
SPECint_rate_base95 (G. Mean)			5605			
			SPECint_rate95 (G. Mean)			7264

Notes/Tuning Information

```
Compiler invocation: cc -std1      Base tuning: -fast -arch ev6 -O4 + GemFB
go:        -g3 -arch ev6 -fast -inline speed -assume whole_program -non_shared +OmFB
m88ksim:   -g3 -arch ev6 -O4 -ifo -unroll 16 -non_shared +GemFB
gcc:       -g1 -arch ev6 -O4 -ifo -xtaso_short -noansi_alias -non_shared +BothFB
compress:  -g3 -arch ev6 -fast -O4 -assume whole_program -non_shared -lsys5 +GemFB
li:        -g1 -arch ev6 -fast -O4 -xtaso_short -speculate all -non_shared -lsys5 +GemFB
ijpeg:     -g3 -arch ev6 -fast -O4 -speculate all -unroll 8 -non_shared -lsys5 +GemFB
perl:      -g3 -arch ev6 -O4 -ifo -non_shared +BothFB
vortex:    -g3 -arch ev6 -fast -O4 -speculate all -non_shared +BothFB
Portability: m88ksim: -DLEHOST; perl: -DI_TIME;  vortex: -D__RISC_64__
GemFB:  PASS1=-prof_gen_noopt -prof_dir /tmp/prof PASS2=-prof_use_feedback    -prof_dir /tmp/prof
OmFB:   PASS1=-prof_gen       -prof_dir /tmp/prof PASS2=-prof_use_om_feedback -prof_dir /tmp/prof
.       fdo_pre1  = rm -f /tmp/prof/*Counts*
BothFB: PASS1=as in GemFB      PASS2=as in GemFB plus -r       fdo_run2  = %command%
.       fdo_pre2  = mv %exename% rr; ld [-taso] -o fb rr -lexc; pixie -pids fb -o %exename%
.       fdo_post2 = ld [-taso] -om rr -o rrom -lexc; prof -pixie -merge fb.Counts fb fb.Addrs
.            fb.Counts.*; /usr/lib/cmplrs/cc.dtk/om [-taso] -om_split_procedures
.            -om_ireorg_feedback fb -o %binary% rrom; rm -Rf /tmp/prof/*
.       [only gcc uses -taso in BothFB]
submitnnn = rsh <node> "cd %dir%; runon <cpu> %command% && exit 0"
```

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-- Prepared By: --