SPEC CINT95rate Results

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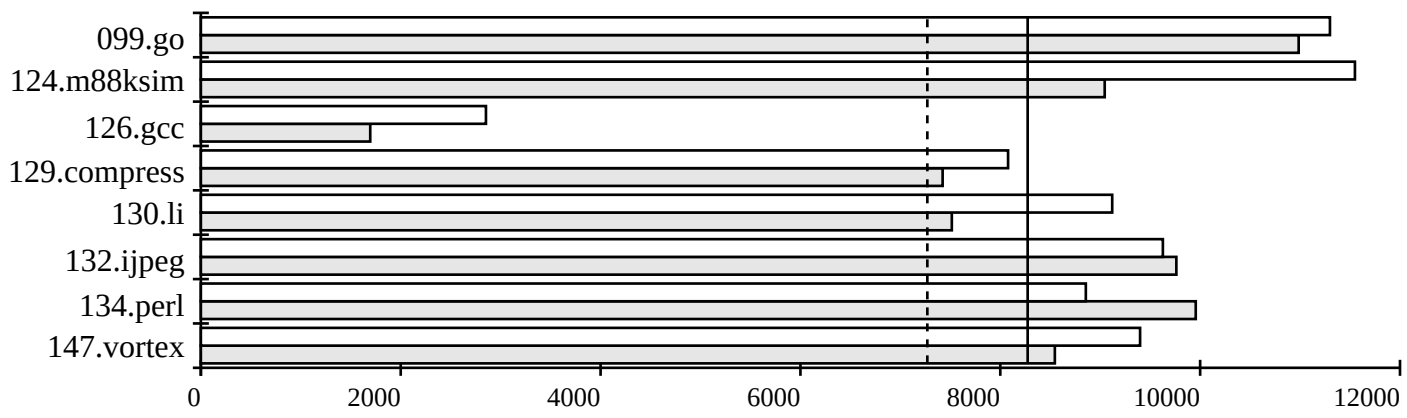
Digital Equipment Corp.
AlphaServer 8400 5/625 Cluster

SPECint_rate95 = 8274

SPECint_rate_base95 = 7270

SPEC license # 2	Tested By: Digital NH	Test Date: Jan-98	Hardware Avail: Jan-98	Software Avail: Jan-98



Hardware/Software Configuration for:
AlphaServer 8400 5/625 Cluster

Hardware

Model Name:	AlphaServer 8400 5/625 Cluster
CPU:	612 MHz 21164
FPU:	Integrated
Number of CPU(s):	64, 8-node (8 cpus/node)
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	96KB (I+D) on chip
Other Cache:	4MB (I+D) off chip
Memory:	64GB (8GB / node)
Disk Subsystem:	(8) RZ1C 4GB
Other Hardware:	Ethernet Memory Channel HSZ70 IO Controller

Software

Operating System:	Digital Unix V4.0D-14 TruCluster 1.5
Compiler:	DEC C T5.7-566-367A7 protect_headers_setup.sh
File System:	NFS
System State:	Multi User

Benchmark # and Name	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
099.go	64	241	10986	64	234	11299
124.m88ksim	64	121	9045	64	95	11549
126.gcc	64	578	1695	64	343	2853
129.compress	64	140	7423	64	128	8078
130.li	64	146	7515	64	120	9120
132.ijpeg	64	142	9762	64	144	9627
134.perl	64	110	9956	64	124	8856
147.vortex	64	182	8546	64	165	9399
SPECint_rate_base95 (G. Mean)			7270			
SPECint_rate95 (G. Mean)						8274

Notes/Tuning Information

```
Compiler: cc.alt -std1    Base: -O4 -arch ev56 -non_shared with om feedback
Portability:  m88ksim: -DLEHOST  perl: -DI_TIME  vortex: -D__RISC_64__

Peak: all: -non_shared -ifo -inline speed      go: -O3, om fb
m88ksim:  -O4 -speculate all, 2-pass fb       gcc: -O4 -arch ev56 -xtaso_short, 2-pass fb
perl:     -O4 -arch ev56 -lsys5, om fb     vortex: -O4 -fast -speculate all, 2-pass fb
compress: -O4 -arch ev56 -assume whole_program -lsys5, om fb
li:       -O4 -xtaso_short -speculate all -lsys5, 2-pass fb
Om feedback: PASS1 = -prof_gen -prof_dir /tmp/prof
.            PASS2 =  -prof_use_om_feedback -prof_dir /tmp/prof
2-pass fb: PASS1 above w/ -gen_feedback; PASS2= -prof_use_feedback -prof_dir /tmp/prof -r
fdo_pre2  = mv %exename% rr; ld -o fb rr -lexc; pixie -pids fb -o %exename%
fdo_run2  = %command%
fdo_post2 = ld -om rr -o rrom -lexc; prof -pixie -merge fb.Counts fb fb.Addrs fb.Counts.*;
/usr/lib/cmplrs/cc.alt/om -om_split_procedures -om_ireorg_feedback fb -o %binary% rrom
gcc and li add -taso to feedback ld commands.
remote runs: submit00n=rsh sysname "cd %dir%; %command% && exit 0"
sysconfigtab parameters tcp_ttl = 20
```

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