SPEC CINT95rate Results

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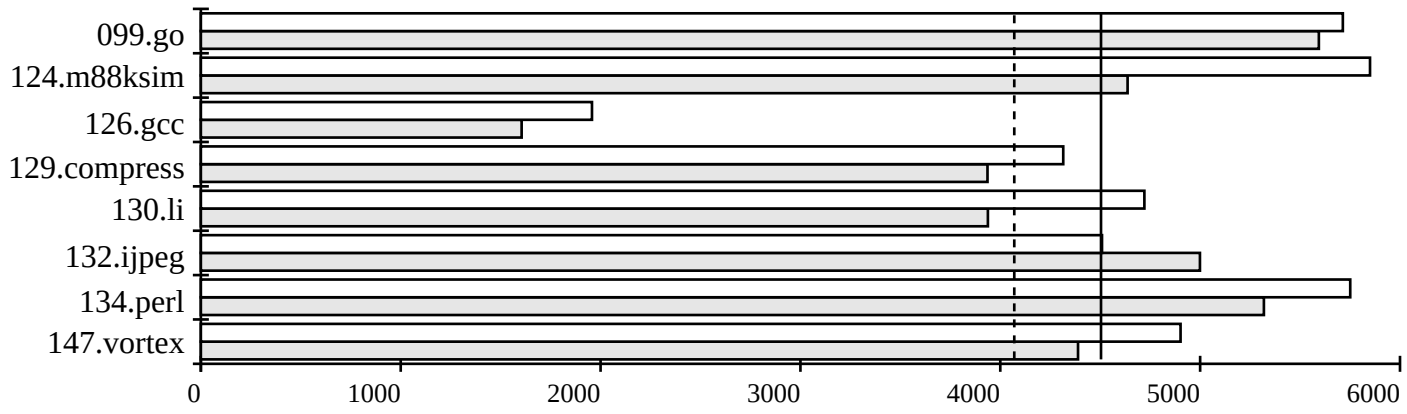
Digital Equipment Corp.
AlphaServer 8400 5/625 Cluster

SPECint_rate95 = 4504

SPECint_rate_base95 = 4070

SPEC license # 2	Tested By: Digital NH	Test Date: Nov-97	Hardware Avail: Nov-97	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):	32, 4-node 8cpu per node
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	96KB (I+D) on chip
Other Cache:	4MB (I+D) off chip
Memory:	16GB (4GB/node)
Disk Subsystem:	2x RZ29B (4GB)
Other Hardware:	Ethernet Memory Channel Prestoserve

Software

Operating System:	Digital Unix V4.0D-11 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	32	237	5594	32	232	5714
124.m88ksim	32	118	4637	32	94	5850
126.gcc	32	305	1605	32	250	1957
129.compress	32	132	3936	32	120	4315
130.li	32	139	3938	32	116	4721
132.ijpeg	32	138	4999	32	153	4509
134.perl	32	103	5319	32	95	5751
147.vortex	32	177	4389	32	159	4902
SPECint_rate_base95 (G. Mean)			4070			
			SPECint_rate95 (G. Mean)			4504

Notes/Tuning Information

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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
ijpeg:    -O4 -fast -unsigned -arch ev56 -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.
For remote node cluster runs: submit00n=rsh sysname "cd %dir%; %command% && exit 0"
```

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