SPEC CINT95rate Results

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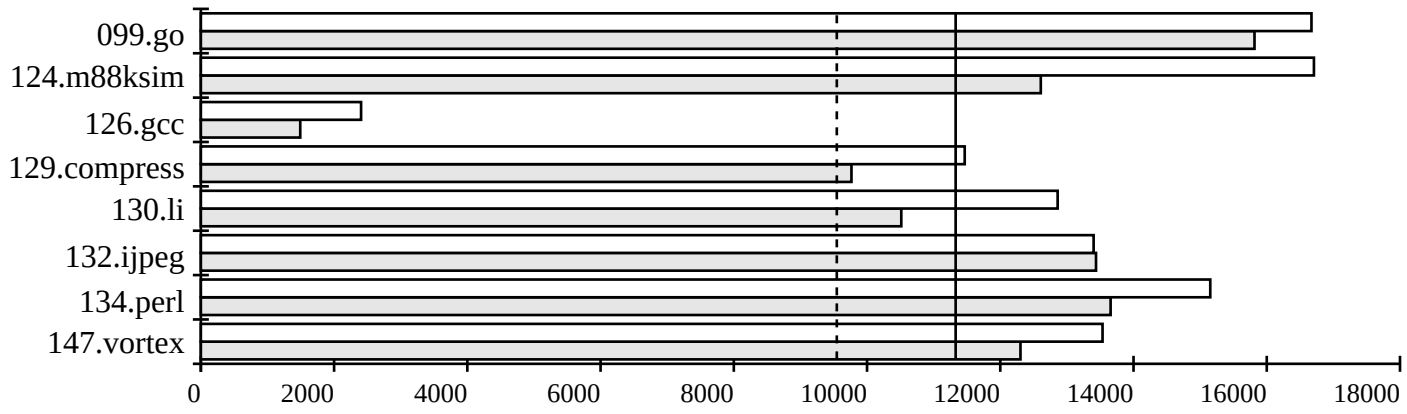
Digital Equipment Corp.
AlphaServer 8400 5/625 Cluster

SPECint_rate95 = 11330

SPECint_rate_base95 = 9546

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):	96, 8-node (12 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	95	249	15816	95	236	16671
124.m88ksim	95	129	12608	95	97	16708
126.gcc	95	974	1492	95	604	2405
129.compress	95	158	9766	95	134	11466
130.li	95	155	10514	95	126	12861
132.ijpeg	95	153	13437	95	153	13401
134.perl	95	119	13656	95	107	15152
147.vortex	95	188	12303	95	171	13535

SPECint_rate_base95 (G. Mean) 9546

SPECint_rate95 (G. Mean) 11330

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.
remote runs: submit00n=rsh sysname "cd %dir%; %command% && exit 0"
sysconfigtab parameters tcp_ttl = 20
```

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-- Prepared By: Digital NH