# SPEC CINT95rate Results

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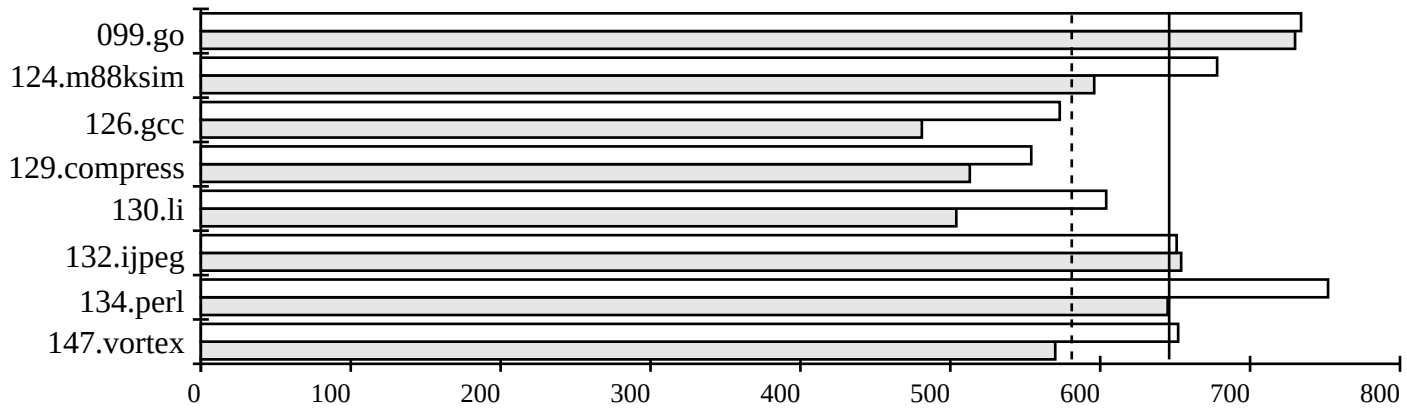
## Digital Equipment Corp.
## AlphaServer 8200 5/625

SPECint_rate95 = 646

SPECint_rate_base95 = 581

| SPEC license # 2 | Tested By: Digital NH | Test Date: Sep-97 | Hardware Avail: Nov-97 | Software Avail: Dec-97 |
|---|---|---|---|---|




Hardware/Software Configuration for:
AlphaServer 8200 5/625

**Hardware**

| | |
|---|---|
| Model Name: | AlphaServer 8200 5/625 |
| CPU: | 612 MHz 21164 |
| FPU: | Integrated |
| Number of CPU(s): | 4 |
| Primary Cache: | 8KB(I)+8KB(D) on chip |
| Secondary Cache: | 96KB on chip |
| Other Cache: | 4MB |
| Memory: | 8GB (2x4GB) |
| Disk Subsystem: | 4x4GB |
| Other Hardware: | Ethernet |

**Software**

| | |
|---|---|
| Operating System: | Digital UNIX X4.0D-11 |
| Compiler: | DEC C T5.7-564-3678F<br>protect_headers_setup.sh |
| 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 | 4 | 227 | 730 | 4 | 226 | 734 |
| 124.m88ksim | 4 | 115 | 596 | 4 | 101 | 678 |
| 126.gcc | 4 | 127 | 481 | 4 | 107 | 573 |
| 129.compress | 4 | 126 | 513 | 4 | 117 | 554 |
| 130.li | 4 | 136 | 504 | 4 | 113 | 604 |
| 132.ijpeg | 4 | 132 | 654 | 4 | 133 | 651 |
| 134.perl | 4 | 106 | 645 | 4 | 91 | 752 |
| 147.vortex | 4 | 171 | 570 | 4 | 149 | 652 |
| SPECint_rate_base95 (G. Mean) | | | 581 | | | |
| | | | SPECint_rate95 (G. Mean) | | | 646 |

## 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
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.
```

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