



CINT2000 Result

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Compaq Computer Corporation AlphaServer ES40 Model 6/833

SPECint2000 = 544
SPECint_base2000 = 518

SPEC license #: 2 | Tested by: Compaq NH | Test date: Oct-2000 | Hardware Avail: Jan-2001 | Software Avail: Nov-2000

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	358	392	357	393	
175.vpr	1400	309	452	307	456	
176.gcc	1100	178	617	160	687	
181.mcf	1800	408	441	340	529	
186.crafty	1000	144	694	157	637	
197.parser	1800	500	360	409	440	
252.eon	1300	202	645	202	644	
253.perlbnk	1800	342	526	332	543	
254.gap	1100	301	365	303	363	
255.vortex	1900	282	673	249	763	
256.bzip2	1500	268	560	264	568	
300.twolf	3000	456	658	451	666	

Hardware

CPU: Alpha 21264B
 CPU MHz: 833
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1 to 4
 Parallel: No
 Primary Cache: 64KB(I)+64KB(D) on chip
 Secondary Cache: 8MB off chip
 L3 Cache: None
 Other Cache: None
 Memory: 16GB
 Disk Subsystem: 1x8GB BD0096349A
 Other Hardware: Ethernet

Software

Operating System: Tru64 UNIX V5.1 + Patch Kit 1 libc
 Compiler: Compaq C V6.3-129-44A8I
 Compaq C++ V6.2-033-4298H
 File System: AdvFS
 System State: Multi-user

Notes/Tuning Information

Baseline C : cc -arch ev6 -fast GEMFB ONESTEP
 C++: cxx -arch ev6 -O2 ONESTEP

GEMFB: fdo_pre0 = mkdir /tmp/pb; rm -f /tmp/pb/\${baseexe}
 PASS1_CFLAGS = -prof_gen_noopt -prof_dir /tmp/pb
 PASS2_CFLAGS = -prof_use_feedback -prof_dir /tmp/pb
 (base uses directory /tmp/pb; peak uses /tmp/pp)

SPIKEFB: fdo_post2 = spike -feedback \${baseexe} -o tmp \${baseexe};
 mv tmp \${baseexe}

Peak: cc [except eon: cxx] -arch ev6 ONESTEP plus:

164.gzip: -g3 -fast -O4 +GEMFB
 175.vpr: -g3 -fast -O4 +GEMFB
 176.gcc: -g3 -fast -O4 -xtaso_short +GEMFB
 181.mcf: -g3 -fast -xtaso_short +GEMFB
 186.crafty: -g3 -fast -O4 -inline speed
 197.parser: -g3 -fast -O4 -xtaso_short +GEMFB
 252.eon: -O2
 253.perlbnk: -g3 -fast +GEMFB +SPIKEFB
 254.gap: -g3 -fast -O4 +GEMFB



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Notes/Tuning Information (Continued)

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255.vortex: -g3 -fast +GEMFB +SPIKEFB
256.bzip2: -g3 -fast -O4 +GEMFB
300.twolf: -g3 -fast -O4 +GEMFB
```

```
Portability: gcc: -Dalloca=__builtin_alloca; crafty: -DALPHA
perlbnk: -DSPEC_CPU2000_DUNIX; vortex: -DSPEC_CPU2000_LP64
gap: -DSYS_HAS_CALLOC_PROTO -DSYS_IS_BSD -DSYS_HAS_IOCTL_PROTO -DSPEC_CPU2000_LP64
```

Information on UNIX V5.1 Patches can be found at
<http://ftpl.service.digital.com/public/unix/v5.1/>