



CINT2000 Result

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Compaq Computer Corporation
AlphaStation XP1000 Model 6/667

SPECint2000 = 403
SPECint_base2000 = 380

SPEC license #: 2 Tested by: Compaq NH Test date: Dec-2000 Hardware Avail: Aug-1999 Software Avail: Nov-2000

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	468	299	466	301	
175.vpr	1400	418	335	418	335	
176.gcc	1100	279	395	243	452	
181.mcf	1800	717	251	594	303	
186.crafty	1000	185	539	198	506	
197.parser	1800	689	261	543	331	
252.eon	1300	257	505	257	505	
253.perlbnk	1800	454	397	434	415	
254.gap	1100	358	307	356	309	
255.vortex	1900	371	512	327	582	
256.bzip2	1500	351	428	351	427	
300.twolf	3000	622	483	620	484	

Hardware

CPU: Alpha 21264A
CPU MHz: 667
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip
CPU(s) orderable: 1
Parallel: No
Primary Cache: 64KB(I)+64KB(D) on chip
Secondary Cache: 4MB off chip
L3 Cache: None
Other Cache: None
Memory: 1GB
Disk Subsystem: 1x4GB RZ2DD-KS
Other Hardware: None

Software

Operating System: Tru64 UNIX V5.1
Libc from UNIX V5.1 Patch Kit 1
Compiler: Compaq C V6.3-129-44A8I
Compaq C++ V6.2-033-4298H
File System: ufs
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)

```
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/>