



CINT2000 Result

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Compaq Computer Corporation
AlphaServer DS20E Model 6/667

SPECint2000 = 455
SPECint_base2000 = 425

SPEC license #: 2 | Tested by: Compaq NH | Test date: Aug-2001 | Hardware Avail: Mar-2000 | Software Avail: May-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	437	321	434	323	
175.vpr	1400	386	363	387	361	
176.gcc	1100	227	484	202	544	
181.mcf	1800	441	408	377	477	
186.crafty	1000	183	547	183	547	
197.parser	1800	618	291	520	346	
252.eon	1300	243	535	244	533	
253.perlbmk	1800	432	417	394	457	
254.gap	1100	352	312	331	332	
255.vortex	1900	337	563	287	661	
256.bzip2	1500	332	451	311	482	
300.twolf	3000	554	541	557	538	

Hardware

CPU: Alpha 21264A
 CPU MHz: 667
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1 to 2
 Parallel: No
 Primary Cache: 64KB(I)+64KB(D) on chip
 Secondary Cache: 8MB off chip
 L3 Cache: None
 Other Cache: None
 Memory: 512MB (16x32MB)
 Disk Subsystem: 1x18GB
 Other Hardware: None

Software

Operating System: Tru64 UNIX V5.1
 UNIX V5.1 Patch Kit 2
 Compiler: Compaq C T6.4-208-46B2F
 Compaq C++ V6.3-005-46B22
 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 +SPIKEFB
 181.mcf: -g3 -fast -xtaso_short +GEMFB
 186.crafty: same as baseline
 197.parser: -g3 -fast -O4 -xtaso_short +GEMFB
 252.eon: -O2
 253.perlbmk: -g3 -fast -non_shared +GEMFB +SPIKEFB
 254.gap: -g3 -fast -O4 -non_shared +GEMFB +SPIKEFB



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Notes/Tuning Information (Continued)

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

```
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/>