



CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Compaq Computer Corporation
AlphaServer DS20E Model 6/667

SPECint2000 = 444
SPECint_base2000 = 424

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	100 200 300 400 500 600					
164.gzip	1400	436	321	437	321	[Bar chart showing ratio 321]					
175.vpr	1400	380	368	381	368	[Bar chart showing ratio 368]					
176.gcc	1100	222	496	199	552	[Bar chart showing ratio 552]					
181.mcf	1800	417	432	361	498	[Bar chart showing ratio 498]					
186.crafty	1000	200	500	191	523	[Bar chart showing ratio 523]					
197.parser	1800	616	292	505	356	[Bar chart showing ratio 356]					
252.eon	1300	252	515	252	515	[Bar chart showing ratio 515]					
253.perlbnk	1800	421	427	422	427	[Bar chart showing ratio 427]					
254.gap	1100	345	318	336	327	[Bar chart showing ratio 327]					
255.vortex	1900	344	552	342	556	[Bar chart showing ratio 556]					
256.bzip2	1500	329	457	323	464	[Bar chart showing ratio 464]					
300.twolf	3000	582	515	579	519	[Bar chart showing ratio 519]					

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: 1x4GB
Other Hardware: Ethernet

Software

Operating System: Tru64 UNIX V4.0F
Compiler: Compaq C X6.2-259-449AT
DIGITAL C++ V6.1-029-408B6
File System: ufs
System State: Multi-user

Notes/Tuning Information

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

Peak: cc [except eon: cxx] -v -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
254.gap: -g3 -fast -O4 +GEMFB
255.vortex: -g3 -fast +GEMFB
256.bzip2: -g3 -fast -O4 +GEMFB



CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Compaq Computer Corporation
AlphaServer DS20E Model 6/667

SPECint2000 =	444
SPECint_base2000 =	424

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

Notes/Tuning Information (Continued)

300.twolf: -g3 -fast -O4 +GEMFB

Portability: gcc: -Dalloca=__builtin_alloca; crafty: -DALPHA
perlbmk: -DSPEC_CPU2000_DUNIX; vortex: -DSPEC_CPU2000_LP64
gap: -DSYS_HAS_CALLOC_PROTO -DSYS_IS_BSD -DSYS_HAS_IOCTL_PROTO -DSPEC_CPU2000_LP64
The C compiler used here will be available to customers as V6.3
at <http://www.unix.digital.com/dtk/> . It will be available as an
ADK (Advanced Developers' Kit) in February, 2000 and as the final
version in July, 2000.