

SPEC license #

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Hewlett-Packard Company hp AlphaServer GS320 68/1224

SPECint2000 = SPECint_base2000 =

Aug-2002 Software Avail

Jul-2002 Hardware Avail:

NC NC

Nov-2001

SPEC has determined that this result was not in compliance with the SPEC CPU2000 run and reporting rules. Specifically, the submitter has reported that the 3 month availability requirement in the SPEC CPU2000 run rules will not be met due to a change in availability date for the operating system.

HPQ - NH Test date

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio				
164.gzip	1400	NC	NC	NC	NC				
175.vpr	1400	NC	NC	NC	NC				
176.gcc	1100	NC	NC	NC	NC				
181.mcf	1800	NC	NC	NC	NC				
186.crafty	1000	NC	NC	NC	NC				
197.parser	1800	NC	NC	NC	NC				
252.eon	1300	NC	NC	NC	NC				
253.perlbmk	1800	NC	NC	NC	NC				
254.gap	1100	NC	NC	NC	NC				
255.vortex	1900	NC	NC	NC	NC				
256.bzip2	1500	NC	NC	NC	NC				
300.twolf	3000	NC	NC	NC	NC				
HardwareCPU:Alpha 21264CCPU MHz:1224FPU:IntegratedCPU(s) enabled:1 core, 1 chip, 1 core/chipCPU(s) orderable:1 to 32Parallel:NoPrimary Cache:64KB(I)+64KB(D) on chipSecondary Cache:16MB off chip per CPUL3 Cache:NoneOther Cache:NoneMemory:16GBDisk Subsystem:9GB Hard DriveOther Hardware:None						Operating System: Compiler:Software Tru64 UNIX V5.1B Compaq C V6.4-215-46B7O Program Analysis Tools V2.0 Spike V5.2 DTK (1.471.2.2 46B5P) Compaq C++ V6.3-010-46B2FFile System: System State:ufs Multi-user			
Notes/Tuning Information Baseline C : cc -arch ev6 -fast +CFB ONESTEP C++: cxx -arch ev6 -O2 ONESTEP									

Peak: All but 252.eon: cc -g3 -arch ev6 ONESTEP 164.gzip: -fast -04 -non_shared +CFB 175.vpr: -fast -04 -assume restricted_pointers +CFB 176.gcc: -fast -04 -xtaso_short -all -ldensemalloc -none +CFB +IFB

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Hewlett-Packard Company hp AlphaServer GS320 68/1224 SPECint2000 =

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 PEC license #:
 2 Tested by:
 HPQ - NH Test date:
 Jul-2002 [Hardware Avail:
 Aug-2002 [Software Avail]

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 Aug-2002 [Software Avail]

Notes/Tuning Information (Continued)

181.mcf:	-fast -xtaso_short +CFB +IFB +PFB						
186.crafty:	same as base						
197.parser:	-fast -04 -xtaso_short -non_shared +CFB						
252.eon:	cxx -arch ev6 -02 -all -ldensemalloc -none						
253.perlbmk:	-fast -non_shared +CFB +IFB						
254.gap:	-fast -04 -non_shared +CFB +IFB +PFB						
255.vortex:	-fast -non_shared +CFB +IFB						
256.bzip2:	-fast -04 -non_shared +CFB						
300.twolf:	-fast -04						
-ldensemalloc -non_shared +CFB +IFB							

Most benchmarks are built using one or more types of profile-driven feedback. The types used are designated by abbreviations in the notes:

+CFB: Code generation is optimized by the compiler, using feedback from a training run. These commands are done before the first compile (in phase "fdo_pre0"):

mkdir /tmp/pp
rm -f /tmp/pp/\${baseexe}*

and these flags are added to the first and second compiles:

PASS1_CFLAGS = -prof_gen_noopt -prof_dir /tmp/pp PASS2_CFLAGS = -prof_use -prof_dir /tmp/pp

(Peak builds use /tmp/pp above; base builds use /tmp/pb.)

+IFB: Icache usage is improved by the post-link-time optimizer Spike, using feedback from a training run. These commands are used (in phase "fdo_postN"):

mv \${baseexe} oldexe
spike oldexe -feedback oldexe -o \${baseexe}

+PFB: Prefetches are improved by the post-link-time optimizer Spike, using feedback from a training run. These commands are used (in phase "fdo_post_makeN"):

rm -f *Counts*
mv \${baseexe} oldexe
pixie -stats dstride oldexe 1>pixie.out 2>pixie.err
mv oldexe.pixie \${baseexe}

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Hewlett-Packard Company hp AlphaServer GS320 68/1224 SPECint2000 = SPECint base2000 = NC NC

SPEC license #: 2T

Jul-2002 Hardware Avail: Aug-2002 Software Avail

il: Nov-2001

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HPO - NH Test date

Notes/Tuning Information (Continued)

A training run is carried out (in phase "fdo_runN"), and then this command (in phase "fdo_postN"):

spike oldexe -fb oldexe -stride_prefetch -o \${baseexe}

When Spike is used for both Icache and Prefetch improvements, only one spike command is actually issued, with the Icache options followed by the Prefetch options.

vm:

vm_bigpg_enabled = 1
vm_bigpg_thresh = 16
vm_swap_eager = 0

proc:

max_per_proc_address_space = 0x4000000000 max_per_proc_data_size = 0x40000000000 max_per_proc_stack_size = 0x400000000000 max_proc_per_user = 2048 max_threads_per_user = 0 maxusers = 16384 per_proc_address_space = 0x40000000000 per_proc_data_size = 0x40000000000 per_proc_stack_size = 0x40000000000

System is single QBB (4-cpu) with only 1 cpu enabled at console

Submitted_by: "Beer, Chris" <Chris.Beer@hp.com> Submitted: Thu Aug 1 16:15:48 2002 Submission: cpu2000-20020801-01539.sub

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