



CINT2000 Result

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Alpha Processor, Inc.
API UP2000 750 MHz

SPECint2000 = 456
SPECint_base2000 = 434

SPEC license #: 537 Tested by: API Test date: Jun-2000 Hardware Avail: Oct-2000 Software Avail: Feb-2000

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	100 200 300 400 500 600					
164.gzip	1400	409	343	401	349	[Bar chart showing ratio 349]					
175.vpr	1400	371	377	368	381	[Bar chart showing ratio 381]					
176.gcc	1100	242	454	214	513	[Bar chart showing ratio 513]					
181.mcf	1800	458	393	390	462	[Bar chart showing ratio 462]					
186.crafty	1000	182	550	176	567	[Bar chart showing ratio 567]					
197.parser	1800	599	301	476	378	[Bar chart showing ratio 378]					
252.eon	1300	229	567	230	566	[Bar chart showing ratio 566]					
253.perlbmk	1800	409	440	409	440	[Bar chart showing ratio 440]					
254.gap	1100	339	325	335	329	[Bar chart showing ratio 329]					
255.vortex	1900	325	585	329	578	[Bar chart showing ratio 578]					
256.bzip2	1500	308	486	313	479	[Bar chart showing ratio 479]					
300.twolf	3000	587	511	568	528	[Bar chart showing ratio 528]					

Hardware

CPU: Alpha 21264A
CPU MHz: 750
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: 512 MB (8x64MB)
Disk Subsystem: 1x9GB
Other Hardware: Ethernet

Software

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

Notes/Tuning Information

Tested by Alpha Processor, Inc.

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)

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.perlbmk: -g3 -fast +GEMFB
254.gap: -g3 -fast -O4 +GEMFB
255.vortex: -g3 -fast +GEMFB



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Notes/Tuning Information (Continued)

256.bzip2: -g3 -fast -O4 +GEMFB
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

Information on UNIX V4.0F Patch Kit 1 is available at
<http://ftpl.service.digital.com/public/unix/v4.0f/>