CINT2000 Result

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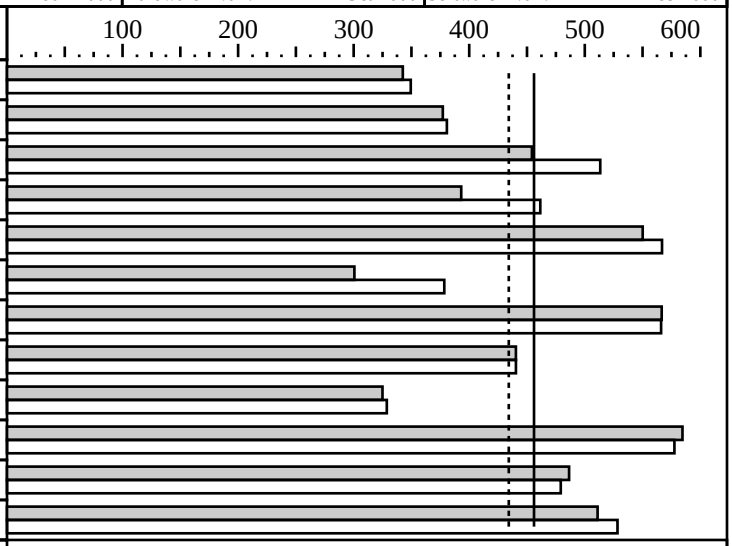
Alpha Processor, Inc.
API UP2000 750 MHz

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
164.gzip	1400	409	343	401	349
175.vpr	1400	371	377	368	381
176.gcc	1100	242	454	214	513
181.mcf	1800	458	393	390	462
186.crafty	1000	182	550	176	567
197.parser	1800	599	301	476	378
252.eon	1300	229	567	230	566
253.perlbmk	1800	409	440	409	440
254.gap	1100	339	325	335	329
255.vortex	1900	325	585	329	578
256.bzip2	1500	308	486	313	479
300.twolf	3000	587	511	568	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://ftp1.service.digital.com/public/unix/v4.0f/
```