CINT2000 Result

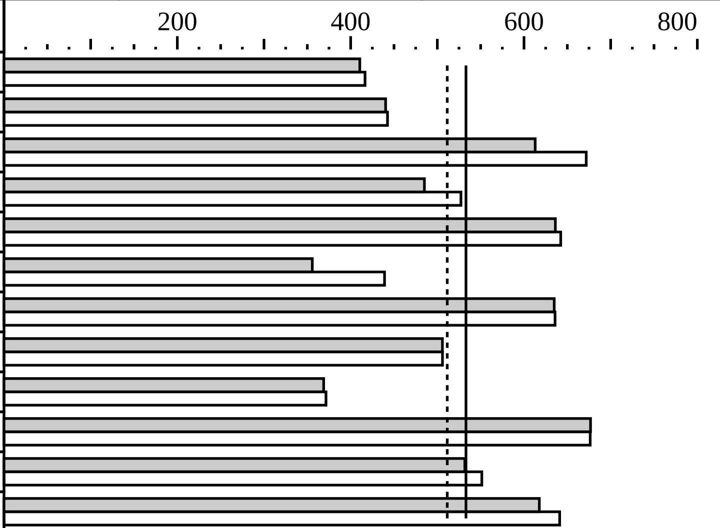
Alpha Processor, Inc.
API UP2000 833 MHz

SPECint2000 = 533

SPECint_base2000 = 511

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	341	411	336	417
175.vpr	1400	318	440	316	443
176.gcc	1100	179	613	164	672
181.mcf	1800	371	485	341	527
186.crafty	1000	157	636	156	642
197.parser	1800	506	356	410	439
252.eon	1300	205	635	204	636
253.perlbmk	1800	356	506	356	506
254.gap	1100	298	369	296	372
255.vortex	1900	281	677	281	676
256.bzip2	1500	282	532	272	551
300.twolf	3000	486	618	468	641



Hardware

CPU: Alpha 21264A
CPU MHz: 833
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
```

CINT2000 Result

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/
```