



CINT2000 Result

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NEC Corporation
NEC NX7700 i9510 32-way (1500 MHz Itanium 2)

SPECint_rate2000 = 465
SPECint_rate_base2000 = 465

SPEC license #: 1184 | Tested by: NEC Fuchu | Test date: Jun-2004 | Hardware Avail: Oct-2003 | Software Avail: May-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	32	153	339	32	153	339
175.vpr	32	139	373	32	139	373
176.gcc	32	74.3	550	32	74.3	550
181.mcf	32	116	576	32	116	576
186.crafty	32	83.0	447	32	83.0	447
197.parser	32	182	367	32	182	367
252.eon	32	73.5	656	32	73.5	656
253.perlbnk	32	146	458	32	146	458
254.gap	32	132	308	32	132	308
255.vortex	32	110	638	32	110	638
256.bzip2	32	116	481	32	116	481
300.twolf	32	201	553	32	201	553

Hardware

CPU: Intel Itanium 2
 CPU MHz: 1500
 FPU: Integrated
 CPU(s) enabled: 32 cores, 32 chips, 1 core/chip
 CPU(s) orderable: 1 to 32
 Parallel: no
 Primary Cache: 16KBI + 16KBD (on chip) per CPU
 Secondary Cache: 256KB (on chip) per CPU
 L3 Cache: 6.0MB (on chip) per CPU
 Other Cache: N/A
 Memory: 128GB (128 * 1024MB DIMMs)
 Disk Subsystem: 1x72GB 10K RPM SCSI disk
 Other Hardware: N/A

Software

Operating System: HPUX11i-FOE B.11.23
 Compiler: HP C/ANSI C Compiler A.05.56
 HP aC++ Compiler A.05.56
 File System: VxFS
 System State: Multi-user

Notes/Tuning Information

Portability Flags

```
176.gcc : -DHOST_WORDS_BIG_ENDIAN
186.crafty : -DHP
252.eon : -DFMAX_IS_DOUBLE
253.perlbnk : -DSPEC_CPU2000_HP
254.gap : -DSPEC_CPU2000_HP -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO
        -DSYS_HAS_TIME_PROTO -DSYS_HAS_CALLOC_PROTO
```

Base Flags

```
all : +Oprofile=collect:all/+Oprofile=use
C : +Ofaster -exec +Odatalayout
C++ : +Ofaster +inline_level 2 -minshared
```

Peak Flags

same as baseline (basepeak=true set globally)

Kernel Tunables:

```
dbc_max_pct=20
dbc_min_pct=20
maxdsiz=3221225472
```



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Notes/Tuning Information (Continued)

```
maxssiz=401604608
maxdsiz_64bit=4396972765184
maxssiz_64bit=1073741824
vps_pagesize=4096
vps_ceiling=16384
```

The system under test had the HP-UX 11i v2 (version 11.23) Foundation Operating Environment and compilers installed, with the following patches applied:

```
PHSS_30018 aC++ compiler (A.05.56)
PHSS_30019 HP C Compiler (A.05.56)
PHSS_30020 u2comp/be/plugin library Patch
PHSS_30776 Fortran Product Patch, v2.8 to v2.8.2
```

Notes:

Filesystem used for SPEC runs mounted "nolog,convosync=delay,mincache=tmpcache"