CINT2000 Result

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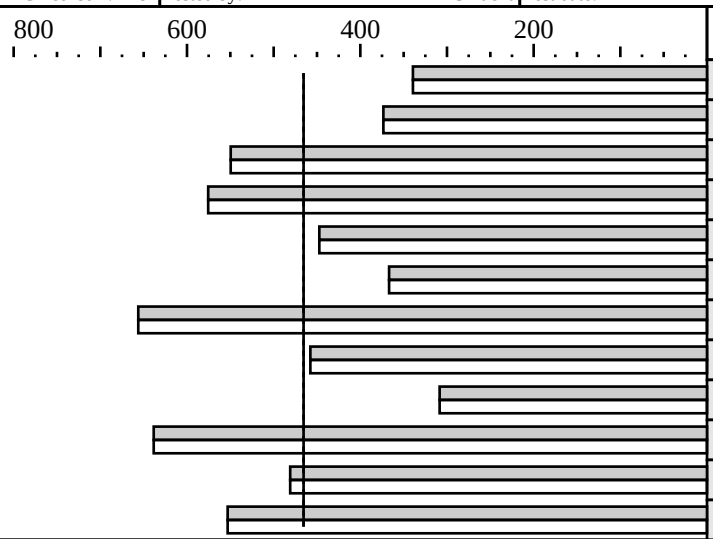
NEC Corporation

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.perlbmk	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.perlbmk : -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"
```