

Site Report

Section "Benchmark Update"

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Benchmark Update:

- Basis:
<http://www.slac.stanford.edu/conf/hepixon5/talks/friday/alef.pdf>
<http://hepixon.caspar.it/spring2006/TALKS/3apr.alef.dualcore.pdf>
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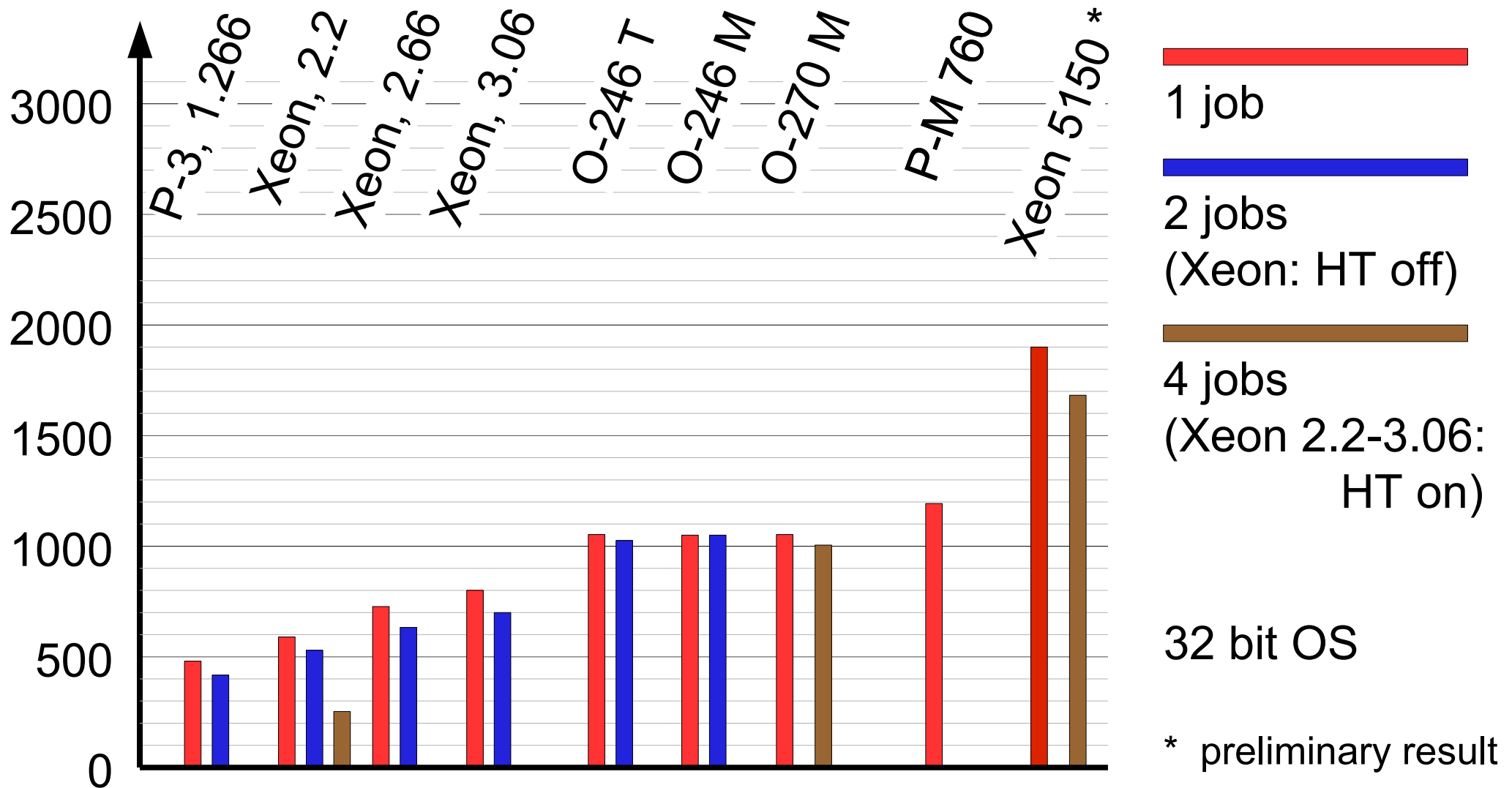
Benchmark Update:

- Benchmark: SPEC CPU2000 (CINT2000)
- OS: Scientific Linux
- Compiler: gcc-3.4.x
- Compiler options: -O3 -funroll-loops -march
- Benchmark usage:
1 benchmark run per CPU core in parallel

Benchmark Update:

→ New results: Intel Xeon 5150 (Woodcrest, 2.66 GHz)

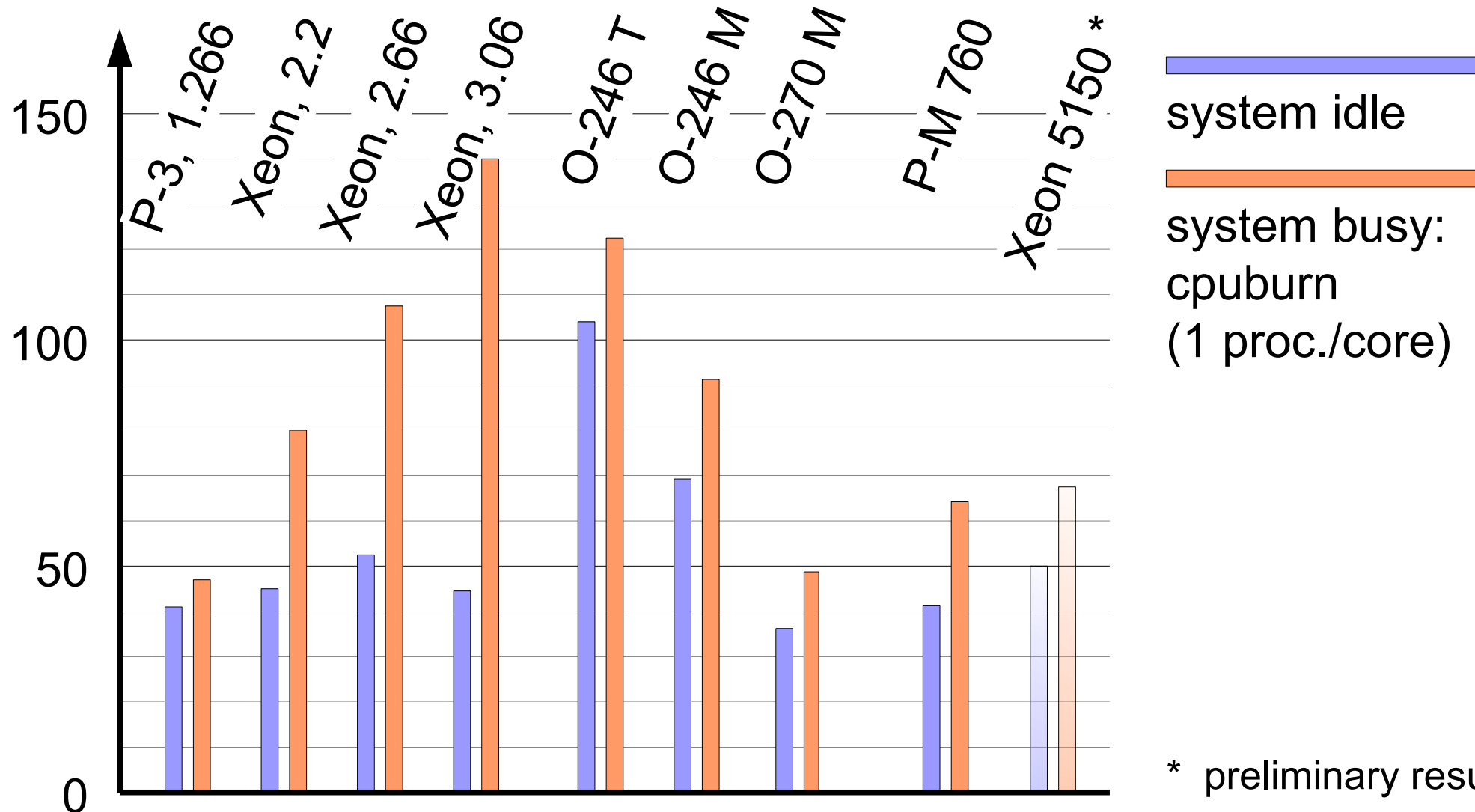
CPU Speed (SPECint_base2000 per Job)



Benchmark Update:

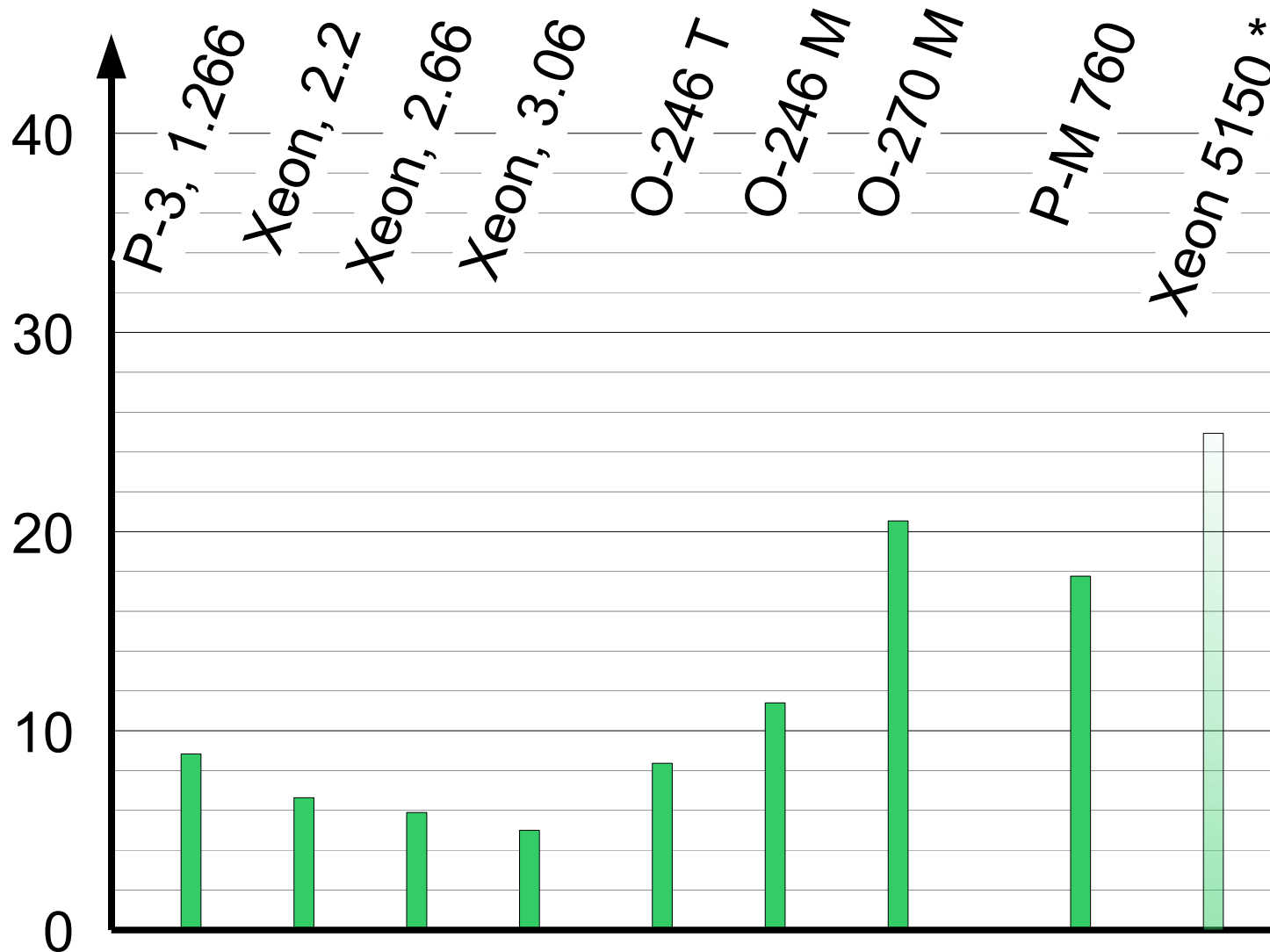
- Electric power consumption:
CPU load: cpuburn (1 per core)
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Electric Power Consumption (Whole System, W per CPU Core)



* preliminary result

Thermic Efficiency (SPECint_base2000 per W)



- 1 job p. core
- Opt.: 32 bit
- Xeon: HT off

* preliminary result

Benchmark Update:

- HEPiX CPU technology tracking pages:
<http://hepixon.caspar.it/afs/hepixon.org/project/ptrack/>

Benchmark Update:

- Next benchmark release (SPEC CPU2006) available since August – rerun benchmarks.
 - "Rate" results (SPECint_rate_base2006) now close to the "speed" numbers (SPECint_base2006).
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