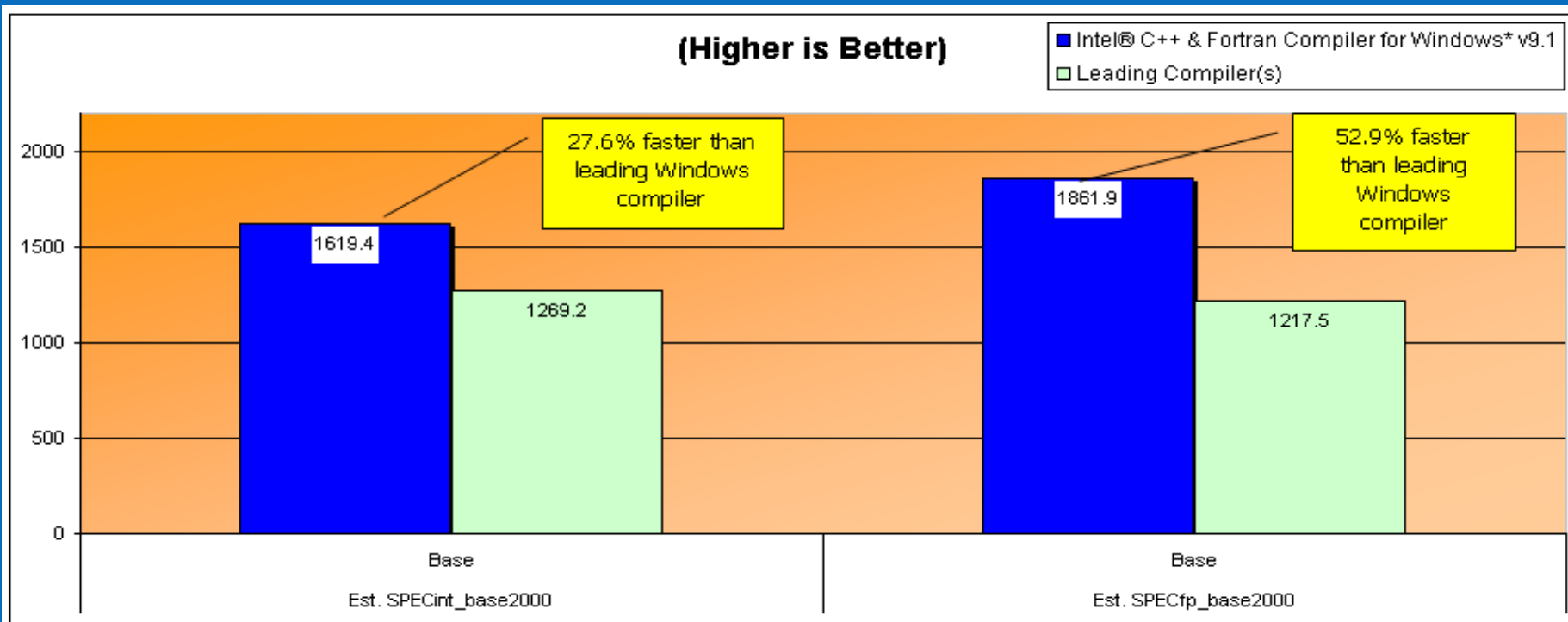


Intel® Compiler v9.1 Performance Benchmarks

A comparison of performance with
other C++ and Fortran compilers
using industry standard benchmarks



Est. SPEC* CPU2000 V1.2, IA-32, Windows*



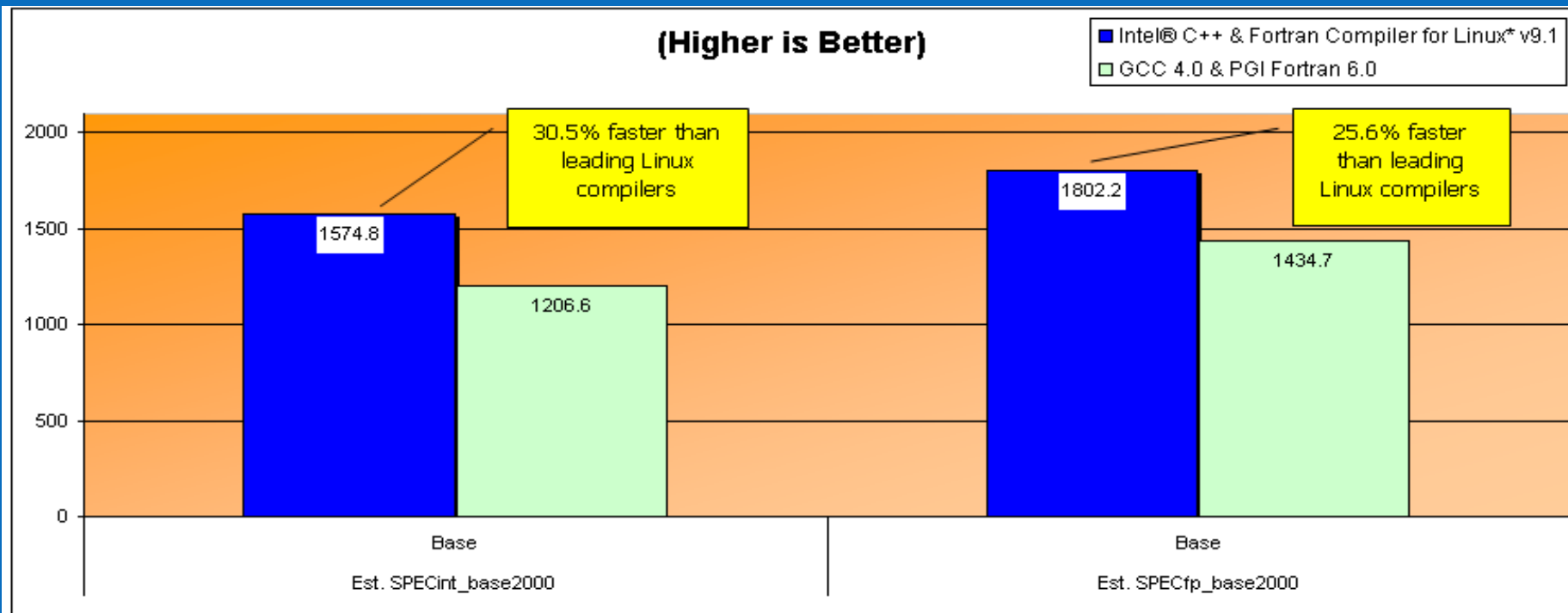
Configuration Info

- For more information about the SPEC int2000 benchmark, visit www.spec.org/cpu2000/
- Compilers: Intel® C++ Compiler 9.1 for Windows*, Intel® Visual Fortran Compiler 9.1, Standard Edition, for Windows, Microsoft® Visual C, C++ 7.1, Compaq Visual Fortran® 6.6C, Absoft 9.0
- Hardware & OS: Intel® Pentium® 4 Processor, 3.6 GHz., 2 GB, 1MB L2, Operating System: MS Windows Server 2003 Enterprise Edition, Build 3790

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.



Est. SPEC* CPU2000 V1.2, IA-32, Linux*



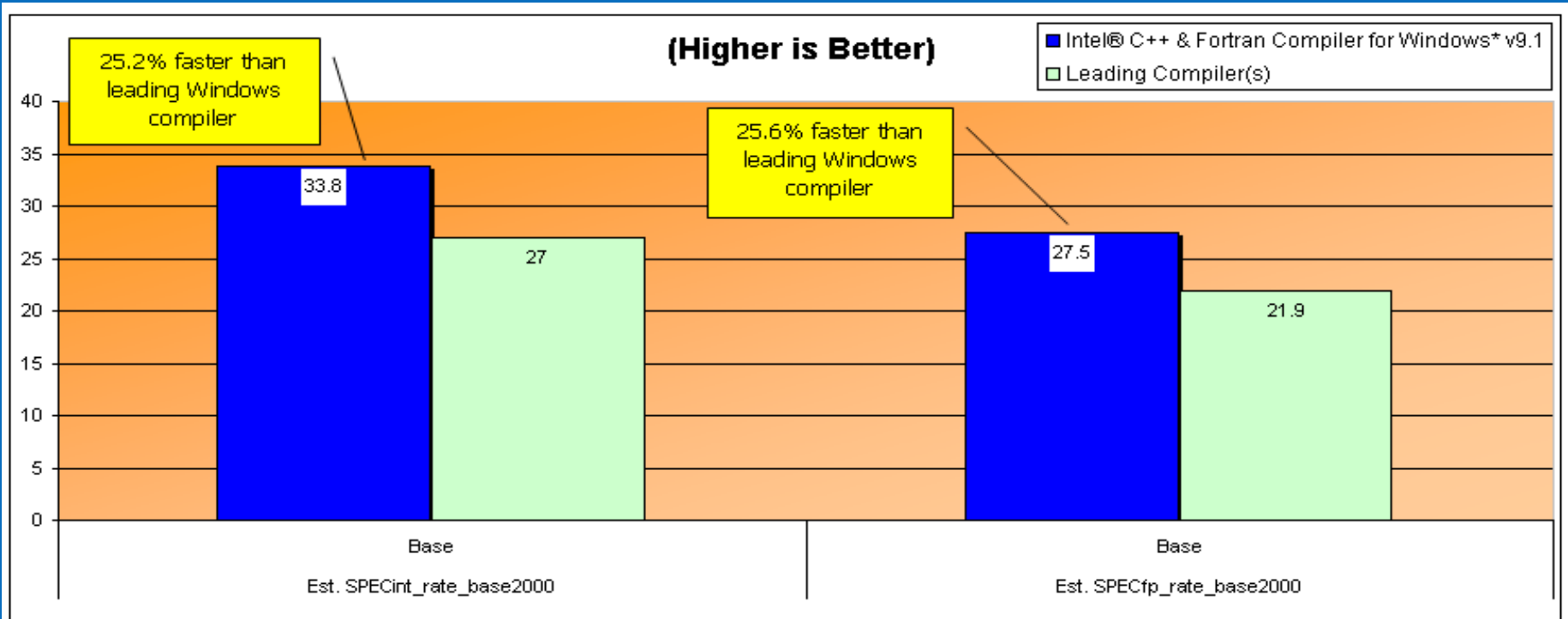
Configuration Info

- For more information about the SPEC int2000 benchmark, visit www.spec.org/cpu2000/
- Compilers: Intel® C++ Compiler 9.1 for Linux*, Intel® Fortran Compiler 9.1 for Linux*, GCC 4.0 & PGI Fortran 6.0
- Hardware & OS: Intel® Pentium® 4 Processor, 3.6 GHz., 512 MB, 1 MB L2, Operating System: Linux, kernel 2.4.21-20.EL #1, glibc 2.3.2-95.30

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.



Est. SPEC* CPU2000 V1.2, IA-32 Dual-Core, Windows*



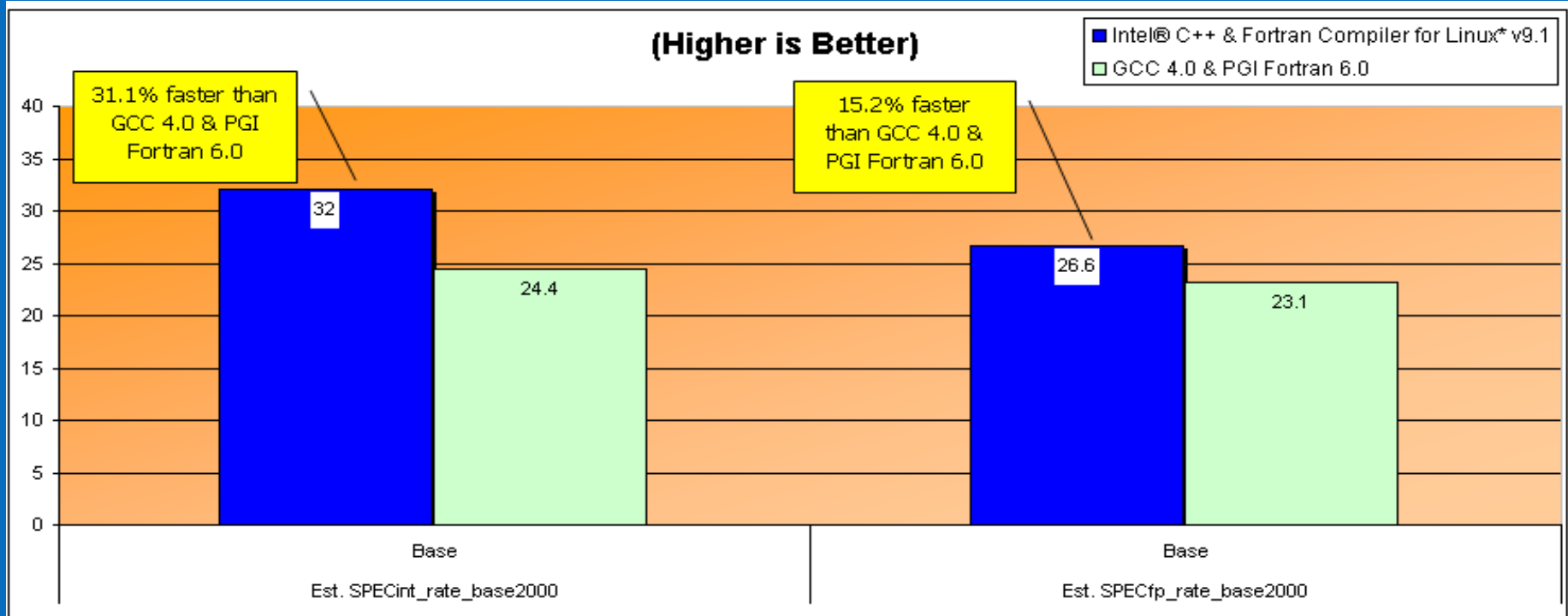
Configuration Info

- For more information about the SPEC int2000 benchmark, visit www.spec.org/cpu2000/
- Compilers: Intel® C++ Compiler 9.1 for Windows*, Intel® Visual Fortran Compiler 9.1, Standard Edition, for Windows, Microsoft* Visual C, C++ 7.1, Compaq Visual Fortran* 6.6C
- Hardware & OS: Intel® Core™ Duo Processor, 2.0 GHz., 1GB, 2 MB L2, Operating System: MS Windows Server 2003 Enterprise Edition, Build 3790

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.



Est. SPEC* CPU2000 V1.2, IA-32 Dual-Core, Linux*



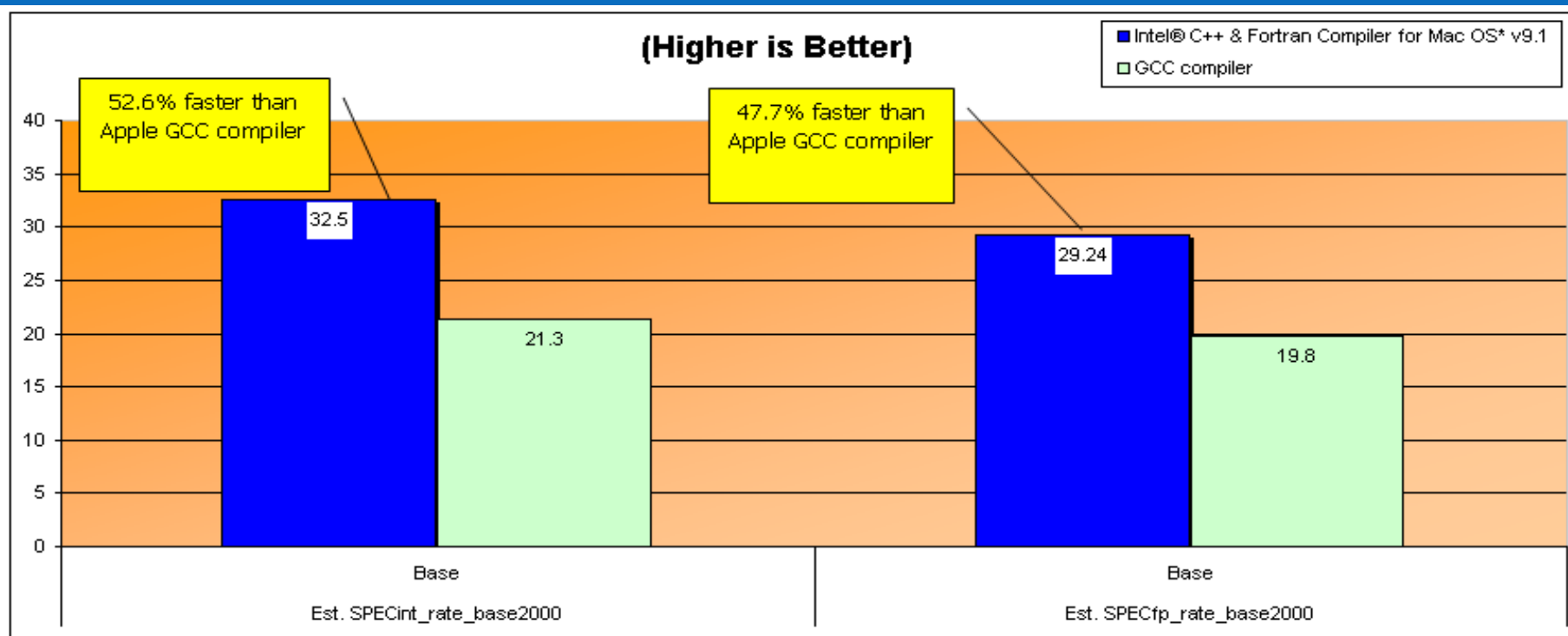
Configuration Info

- For more information about the SPEC int2000 benchmark, visit www.spec.org/cpu2000/
- Compilers: Intel® C++ Compiler 9.1 for Linux*, Intel® Fortran Compiler 9.1 for Linux*, GCC 4.0 & PGI Fortran 6.0
- Hardware & OS: Intel® Core™ Duo Processor, 2.0 GHz., 1GB, 2 MB L2, Operating System: Linux, kernel 2.4.21-20.EL #1, glibc 2.3.2-95.30

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.



Est. SPEC* CPU2000 V1.2, IA-32 Dual-Core, Mac OS*



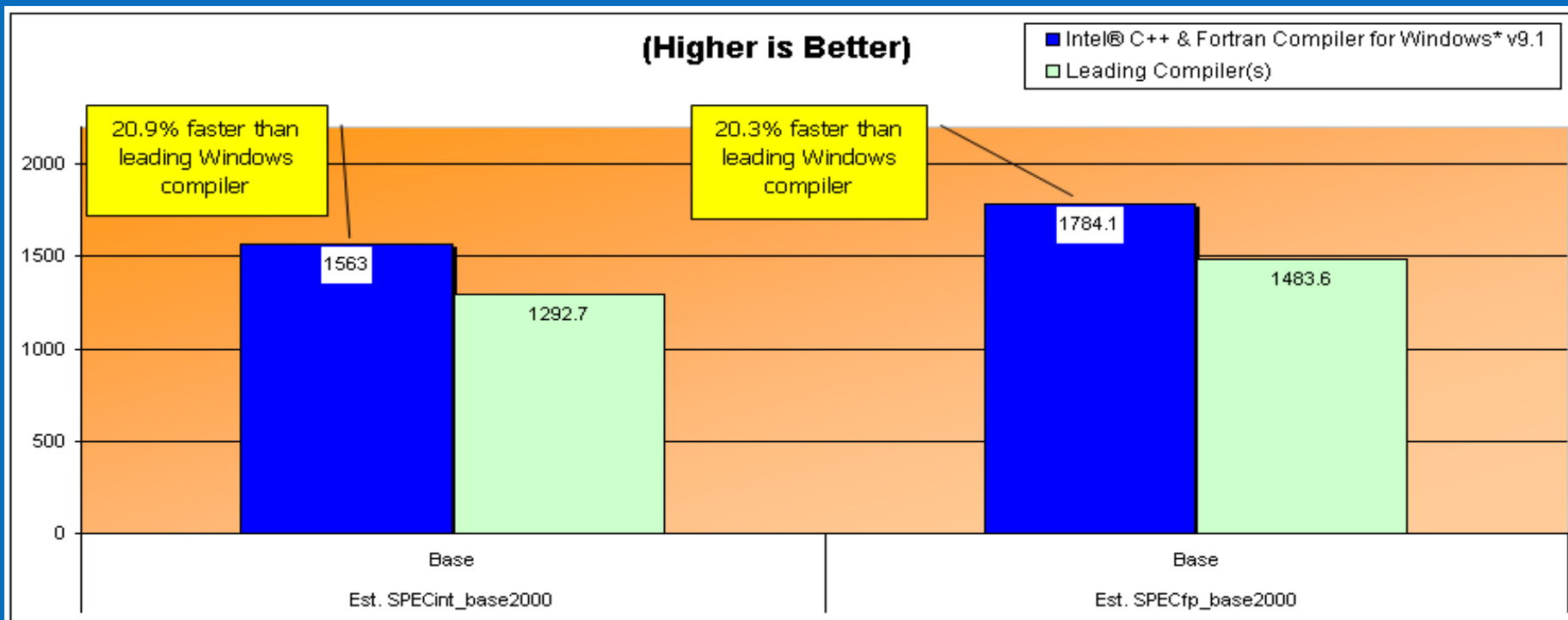
Configuration Info

- For more information about the SPEC int2000 benchmark, visit www.spec.org/cpu2000/
- Compilers: Intel® C++ Compiler 9.1 for Mac OS*, Intel® Fortran Compiler 9.1 for Mac OS*, GCC 4.0.0
- Hardware & OS: Intel® Core™ Duo Processor, 2.0 GHz., 1GB, 2 MB L2, Operating System: Mac OSX, kernel 8.4.1, glibc 0

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.



Est. SPEC* CPU2000 V1.2, Intel® Xeon® Processor supporting Intel® EM64T, Windows*



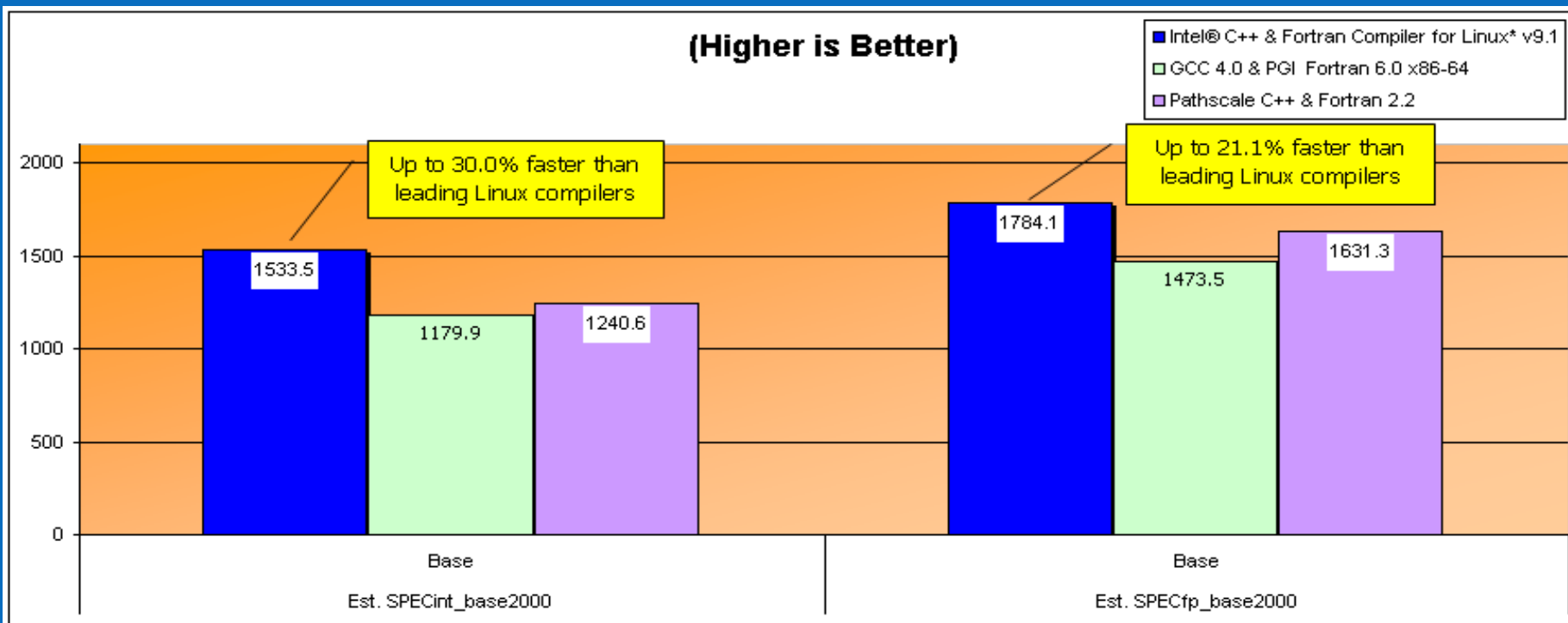
Configuration Info

- For more information about the SPEC int2000 benchmark, visit www.spec.org/cpu2000/
- Compilers: Intel® C++ Compiler 9.1 for Windows*, Intel® Visual Fortran Compiler, Standard Edition, for Windows, Microsoft Visual Studio* 7.1 C++, Compaq Visual Fortran 6.6c
- Hardware & OS: Intel® Xeon® Processor, 3.8 GHz., 2 GB, 1 MB L2, Operating System: MS Windows Server 2003 Enterprise Edition SP1 v.1260, Build 3790

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.



Est. SPEC* CPU2000 V1.2, Intel® Xeon® Processor supporting Intel® EM64T, Linux*



Configuration Info

- For more information about the SPEC int2000 benchmark, visit www.spec.org/cpu2000/
- Compilers: Intel® C++ Compiler 9.1 for Linux*, Intel® Fortran Compiler 9.1 for Linux, GCC 4.0 & PGI Fortran 6.0, Pathscale C++ and Fortran 2.2
- Hardware & OS: Intel® Xeon® Processor, 3.8 GHz., 2 GB, 1MB L2, Operating System: Linux, kernel 2.4.21-27.EL #1, glibc 2.3.2-95.30

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.

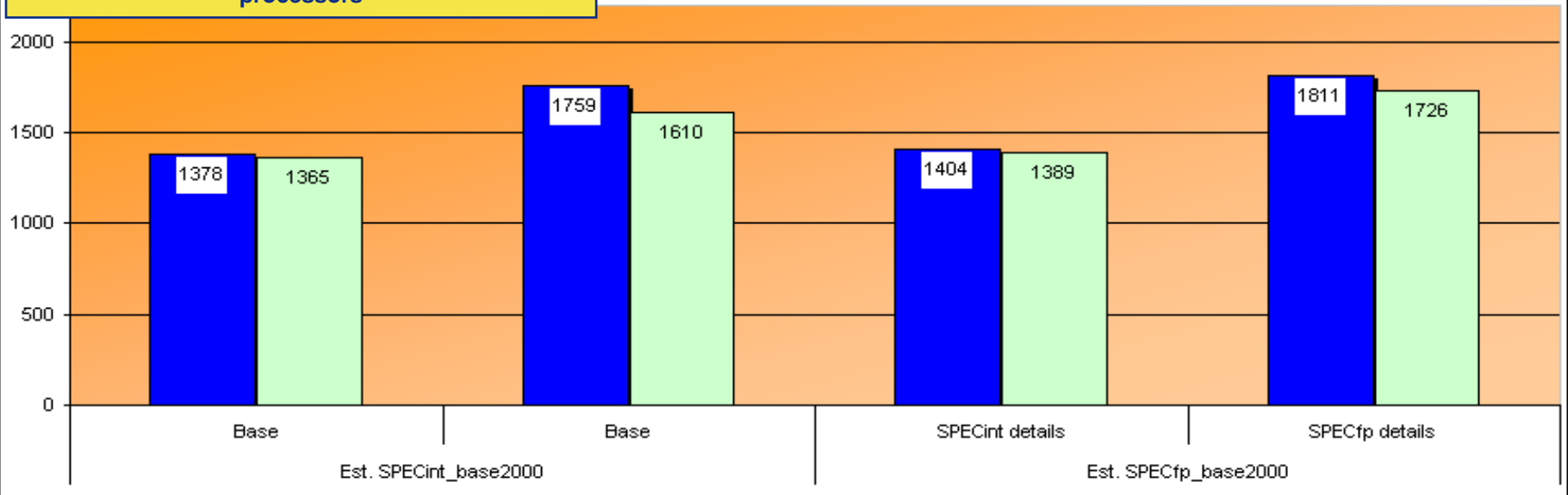


Est. SPEC* CPU2000 V1.2, AMD Opteron*, Windows*

**Want software to run well on different processors?
The Intel Compiler is the only choice for leading
performance on Intel Architecture and on AMD
processors**

(Higher is Better)

■ Intel® C++ & Fortran Compiler for Windows* v9.1
□ Other Leading Compilers



Configuration Info

- For more information about the SPEC int2000 benchmark, visit www.spec.org/cpu2000/
- Compilers: Intel® C++ Compiler 9.1 for Windows*, Intel® Visual Fortran Compiler, Standard Edition, for Windows, Microsoft Visual Studio* 7.1C++, Compaq Visual Fortran 6.6c
- Hardware & OS: Opteron*, 2.6 GHz., 2 GB, 1MB L2, Operating System: MS Windows Server 2003 Enterprise Edition SP1 v.1260, Build 3790

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.

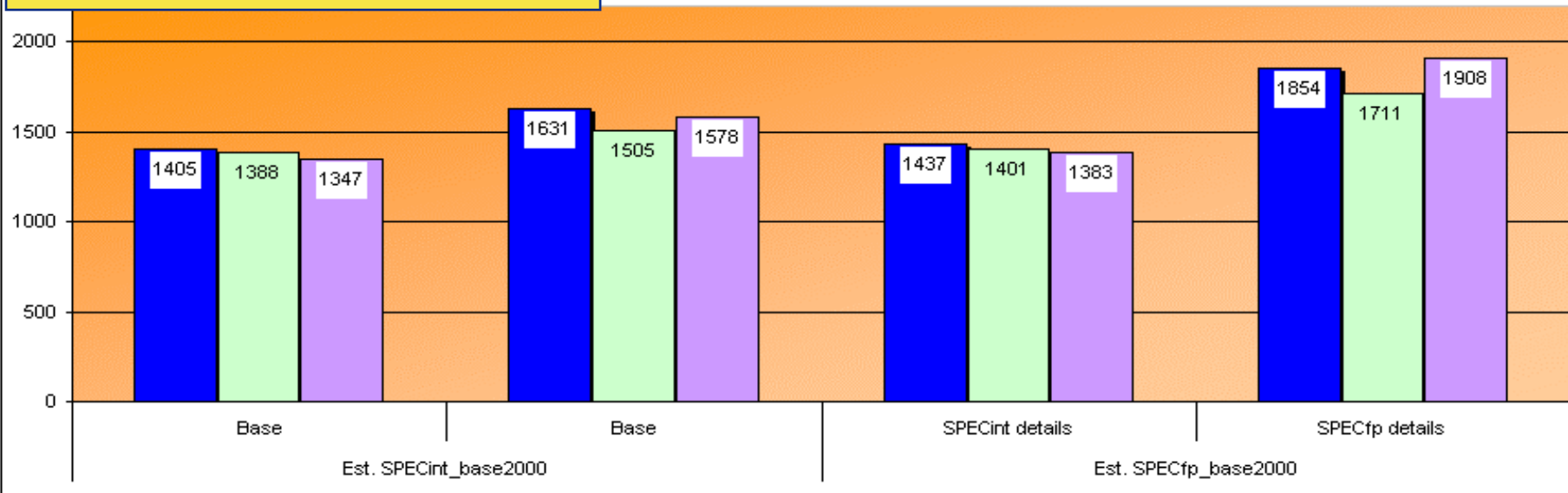


Est. SPEC* CPU2000 V1.2, AMD Opteron*, Linux*

**Want software to run well on different processors?
The Intel Compiler is the only choice for leading performance on Intel Architecture and on AMD processors**

(Higher is Better)

■ Intel® C++ & Fortran Compiler for Linux® v9.1
■ GCC 4.0 & PGI Fortran 6.0 x86-64
■ Pathscale C++ & Fortran 2.2



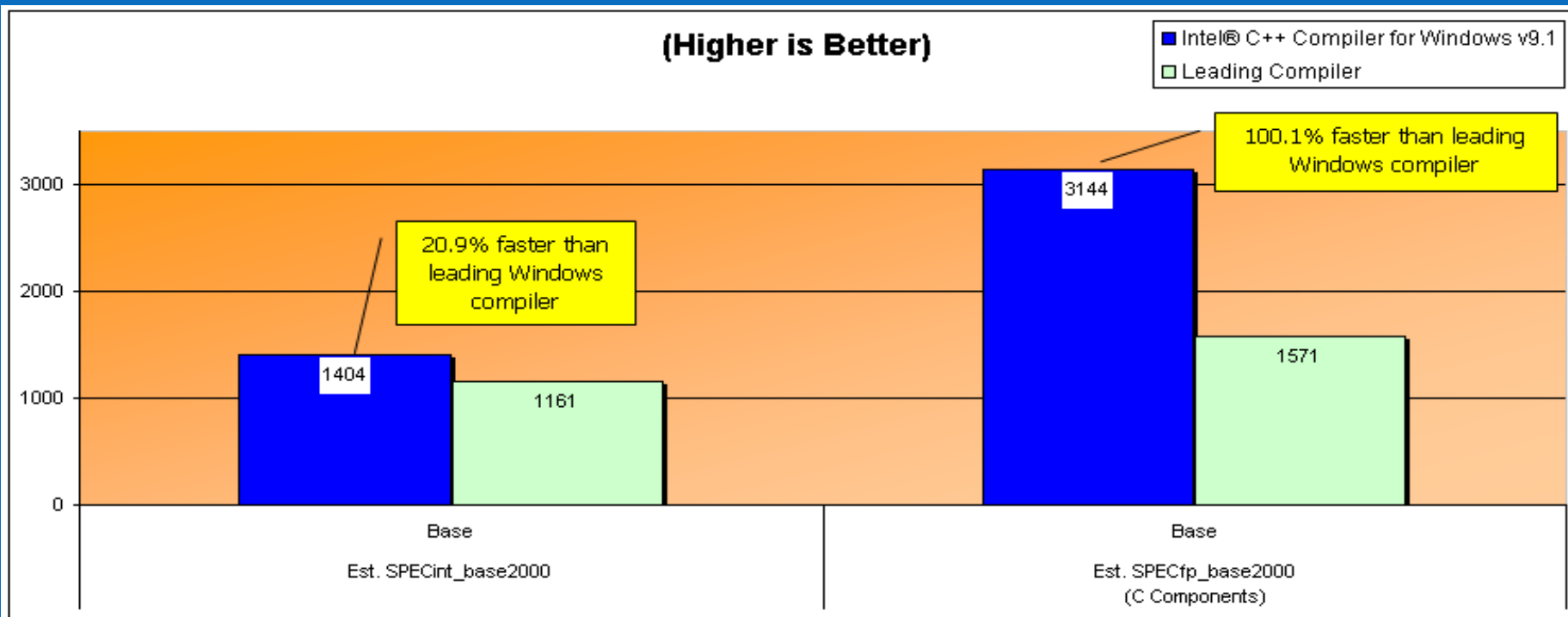
Configuration Info

- For more information about the SPEC int2000 benchmark, visit www.spec.org/cpu2000/
- Compilers: Intel® C++ Compiler 9.1 for Linux®, Intel® Fortran Compiler 9.1 for Linux, GCC 4.0 & PGI Fortran 6.0, Pathscale C++ and Fortran 2.2
- Hardware & OS: Opteron®, 2.6 GHz., 2 GB, 1MB L2, Operating System: Linux, kernel 2.4.21-15.EL #1, glibc 2.3.2-95.30

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.



Est. SPEC* CPU2000 V1.2, Itanium® 2 Processor, Windows*



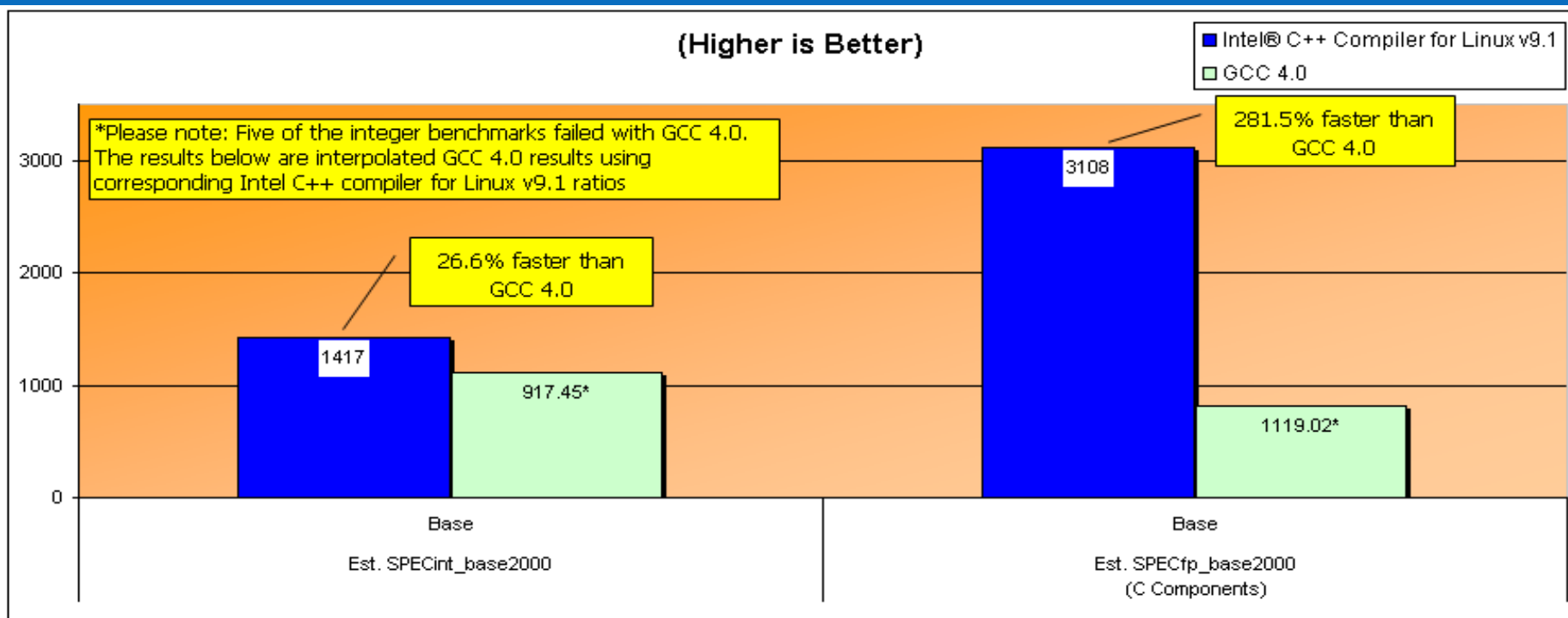
Configuration Info

- For more information about the SPEC int2000 benchmark, visit www.spec.org/cpu2000/
- Compilers: Intel® C++ Compiler 9.1 for Windows*, Microsoft Visual C* 2005
- Hardware & OS: Intel® Itanium® 2 Processor, 1600MHz, 9.1Gb, 9M, Operating System: Microsoft® Windows® Server 2003, Enterprise Edition for 64 bit Itanium-based Systems, 5.2.3790 SP1 Build 3790

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.



Est. SPEC* CPU2000 V1.2, Itanium® 2 Processor, Linux*



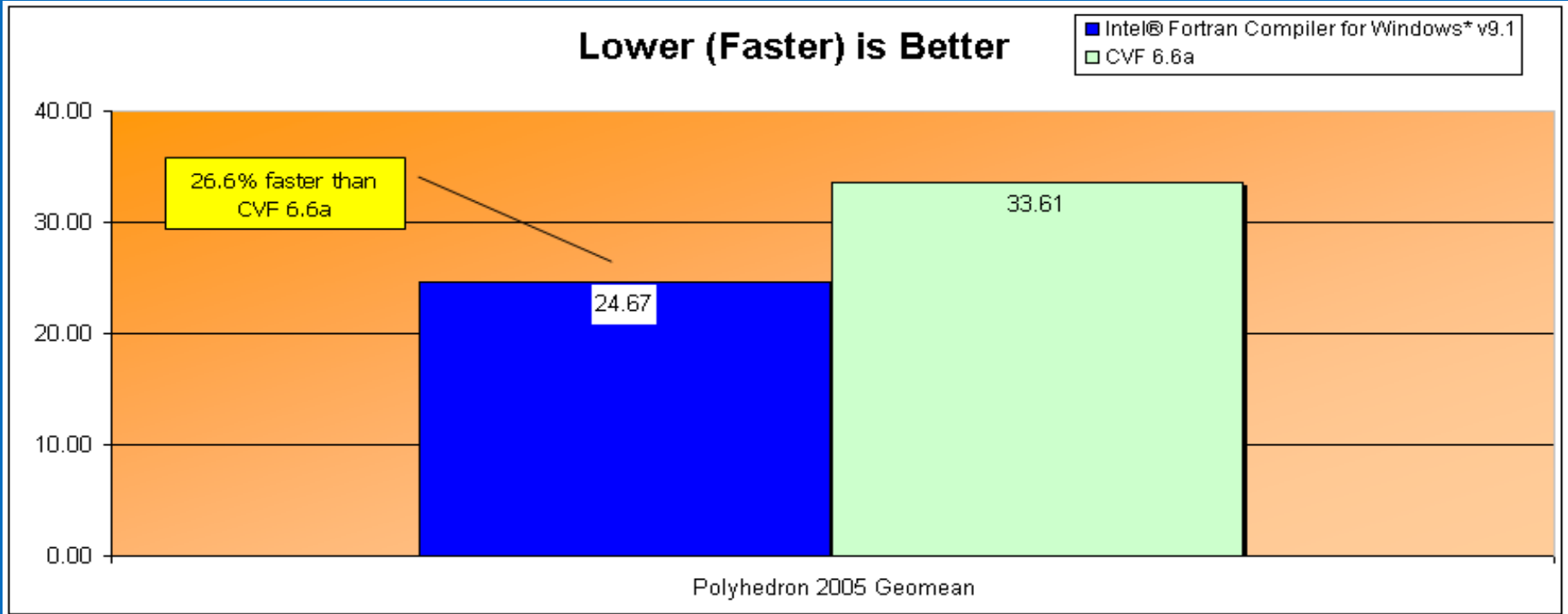
Configuration Info

- For more information about the SPEC int2000 benchmark, visit www.spec.org/cpu2000/
- Compilers: Intel® C++ Compiler 9.1 for Linux*, GCC 4.0
- Hardware & OS: Intel® Itanium® 2 Processor, 1600MHz, 16Gb, 9M, Operating System: Red Hat Enterprise Linux AS release 4, kernel 2.6.9-5.EL.1.0 SMP

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.



Polyhedron 2005 F77/F90 Benchmarks, IA-32, Windows*



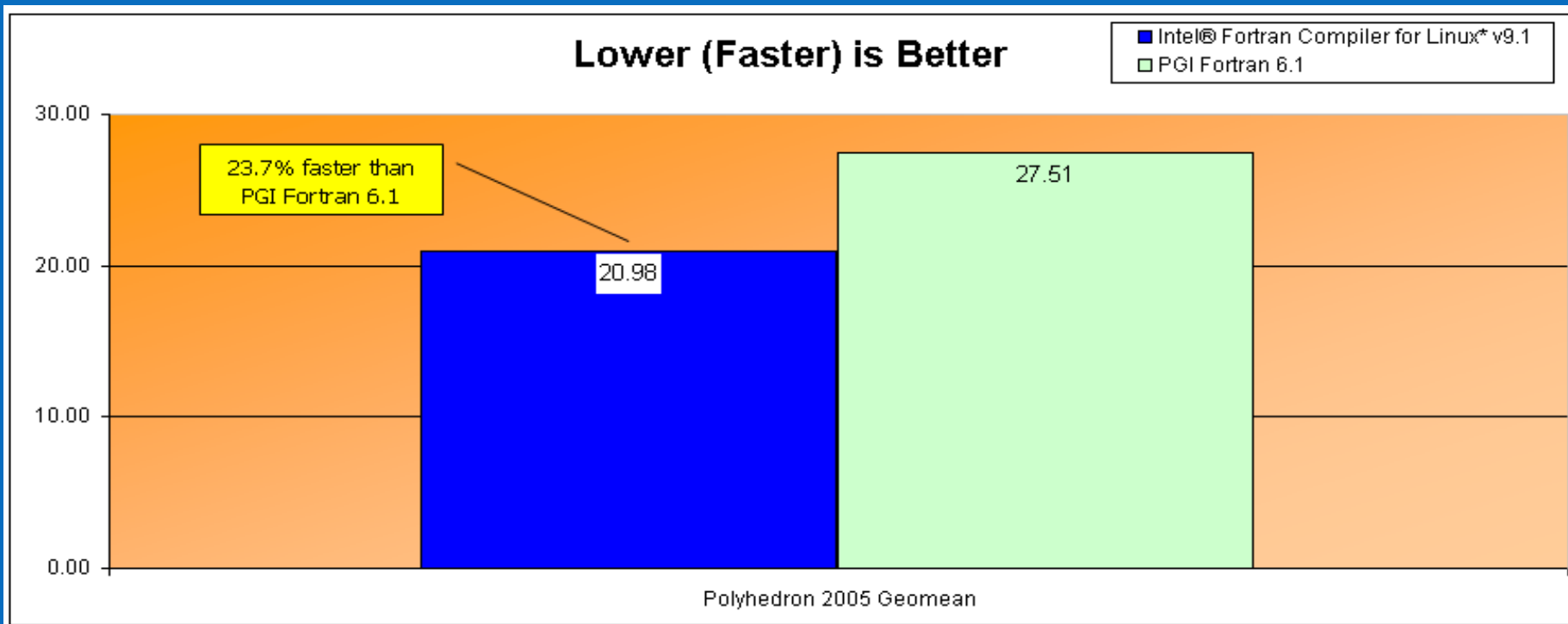
Configuration Info

- Polyhedron 2005 F77 Benchmarks & Polyhedron 2005 F90 Benchmarks (www.polyhedron.com)
- All timings were reported by the Polyhedron Harness program with "standard" timing parameters
- Compilers: Intel® Visual Fortran Compiler, Standard Edition, for Windows, Compaq Visual Fortran 6.6a
- Hardware & OS: Intel® Pentium® 4 Processor, 3.6 GHz., 2 GB, 1MB L2, Operating System: MS Windows Server 2003 Enterprise Edition, Build 3790

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.



Polyhedron 2005 F77/F90 Benchmarks IA-32, Linux*



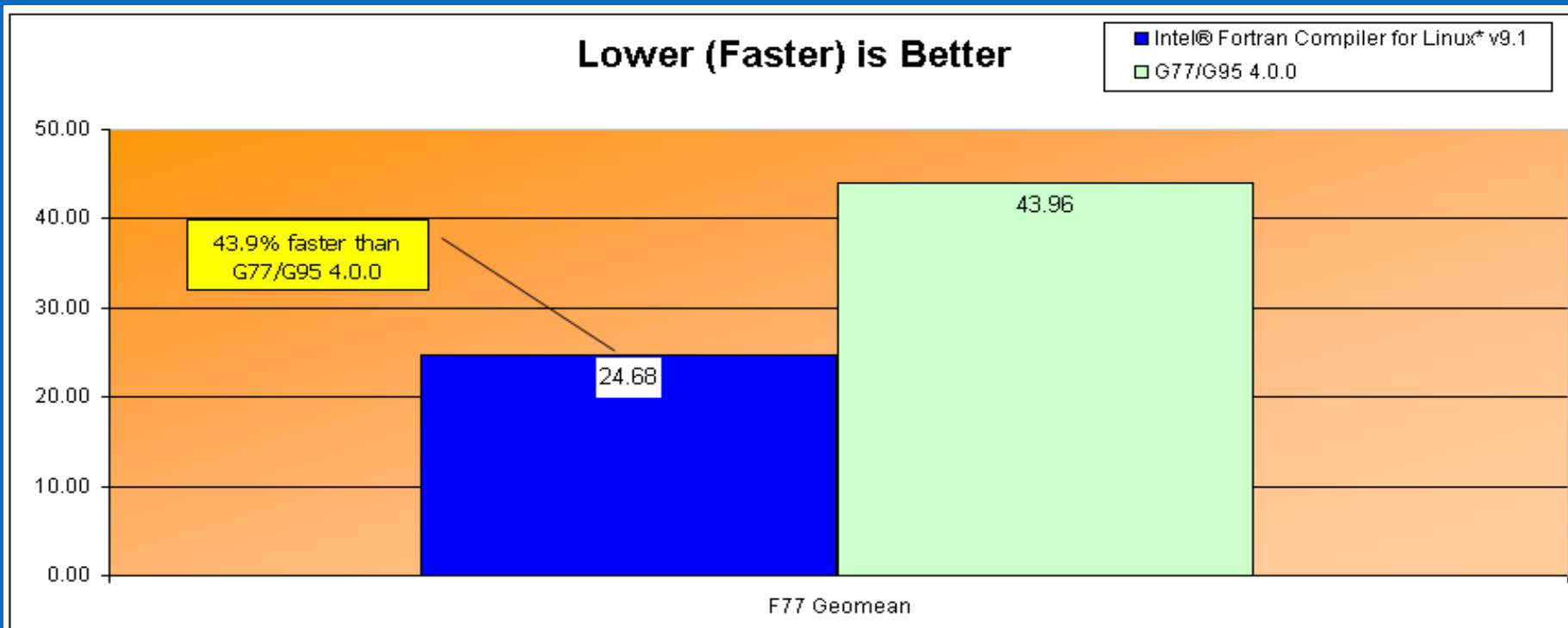
Configuration Info

- Polyhedron 2005 F77 Benchmarks & Polyhedron 2005 F90 Benchmarks (www.polyhedron.com)
- All timings were reported by the Polyhedron Harness program with "standard" timing parameters
- Compilers: Intel® Fortran Compiler 9.1 for Linux*, PGI Fortran 6.1
- Hardware & OS: Intel® Pentium® 4 Processor, 3.6 GHz., 512 MB, 1MB L2, Operating System: Linux, kernel 2.4.21-20.EL #1, glibc 2.3.2-95.30

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.



Polyhedron 2005 F77/F90 Benchmarks, Itanium® 2 Processor, Linux*



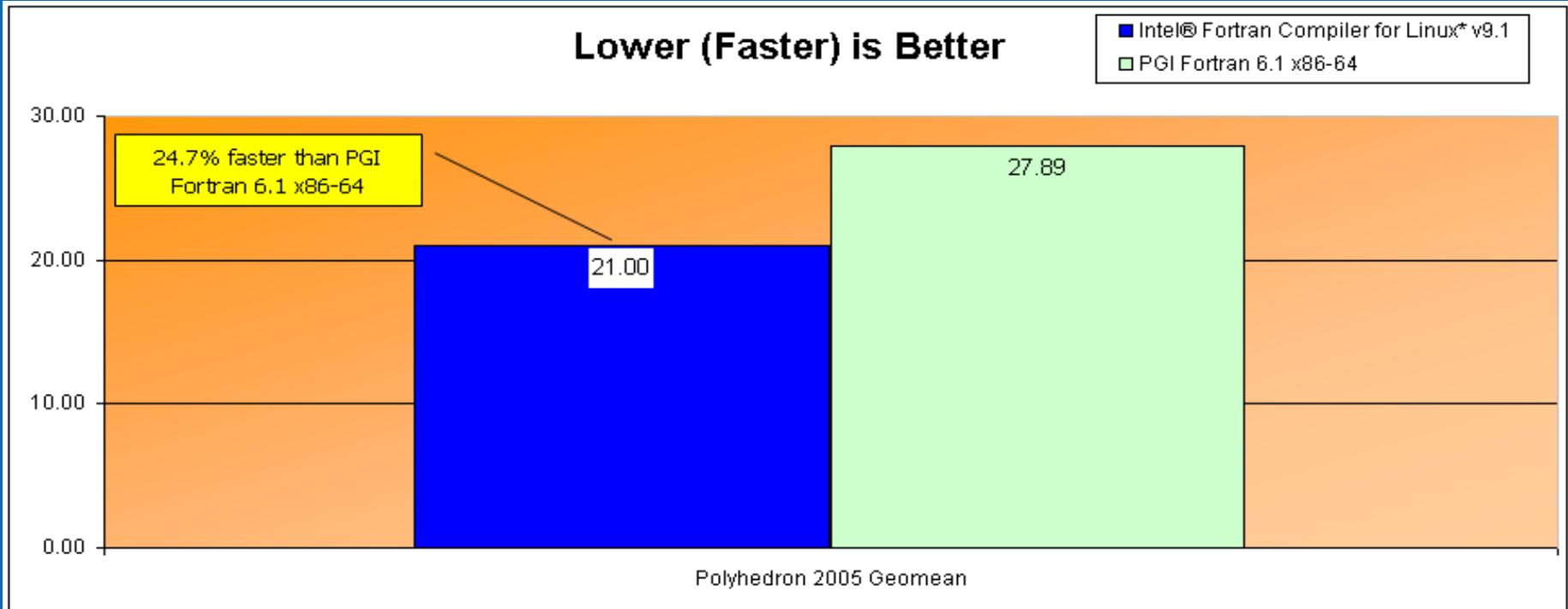
Configuration Info

- Polyhedron 2005 F77 Benchmarks & Polyhedron 2005 F90 Benchmarks (www.polyhedron.com)
- All timings were reported by the Polyhedron Harness program with "standard" timing parameters
- Compilers: Intel® Fortran Compiler 9.1 for Linux*, G77/G95 4.0.0
- Hardware & OS: Intel® Itanium® 2 Processor, 1600MHz, 16Gb, 9M, Operating System: Red Hat Enterprise Linux AS release 4, kernel 2.6.9-5.EL.1.0 SMP

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.



Polyhedron 2005 F77/F90 Benchmarks, Intel® Xeon® Processor supporting Intel® EM64T, Linux*



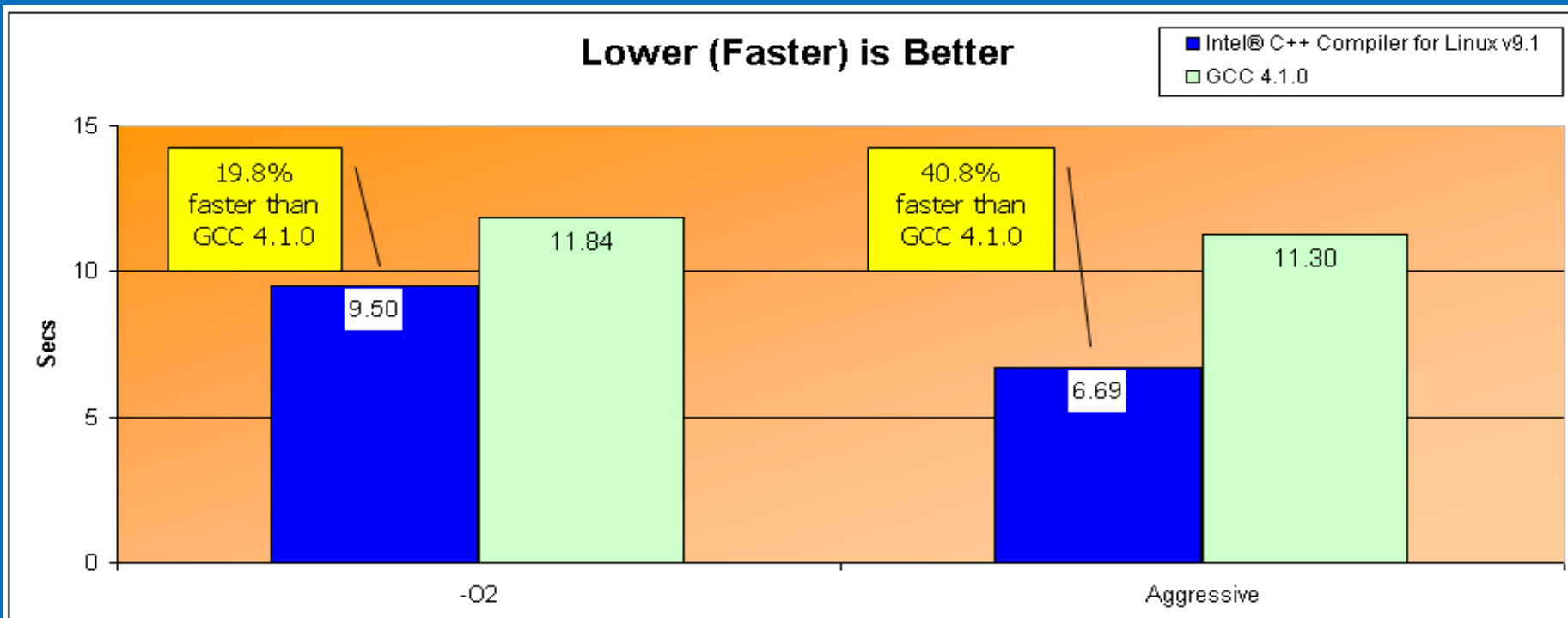
Configuration Info

- Polyhedron 2005 F77 Benchmarks & Polyhedron 2005 F90 Benchmarks (www.polyhedron.com)
- All timings were reported by the Polyhedron Harness program with "standard" timing parameters
- Compilers: Intel® Fortran Compiler 9.1 for Linux®, PGI Fortran 6.1 x86-64
- Hardware & OS: Intel® Xeon® Processor, 3.8 GHz, 2 GB, 1MB L2, Operating System: Linux, kernel 2.4.21-27.EL #1, glibc 2.3.2-95.30

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.



PovRay*, IA-32, Linux*



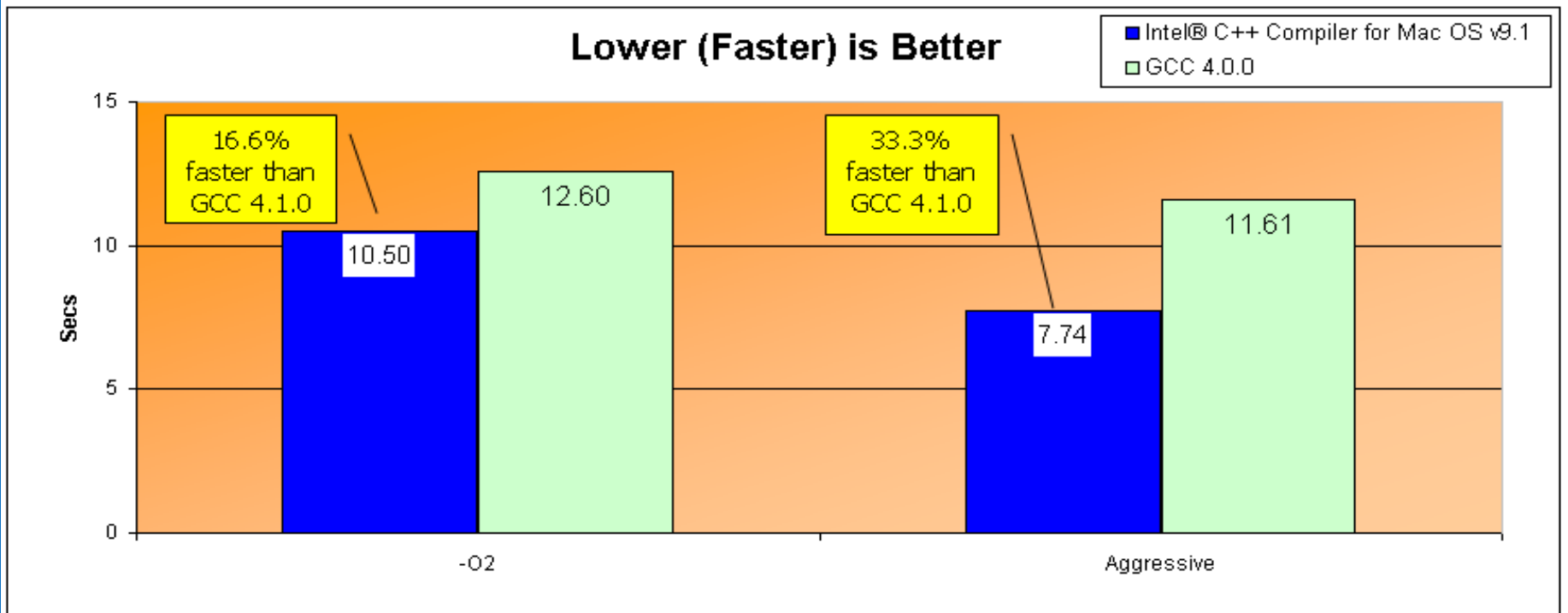
Configuration Info

- PovRay 3.1 - <http://www.povray.org/>
- Compilers: Intel® C++ Compiler 9.1 for Linux*, GCC 4.1.0
- Hardware & OS: Intel® Pentium® 4 Processor, 3200 MHz, 512 MB, 1M, Operating System: Red Hat Enterprise Linux AS release 3 (Taroon), kernel 2.4.21-4.Elsmp, glibc 2.3.2

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.



PovRay*, Intel® Core™ Duo, Mac OS*



Configuration Info

- PovRay 3.1 - <http://www.povray.org/>
- Compilers: Intel® C++ Compiler 9.1 for Mac OS* GCC 4.0.0
- Hardware & OS: Intel® Core™ Duo Processor, 1820 MHz, 512 MB, 2 MB, Operating System: Mac OSX, kernel 10.4.6

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.



PovRay*, Intel® Core™ Duo, Linux*



Configuration Info

- PovRay 3.1 - <http://www.povray.org/>
- Compilers: Intel® C++ Compiler 9.1 for Linux* GCC 4.1.0
- Hardware & OS: Intel® Core™ Duo Processor, 2000 MHz, 1GB, 2 MB, Operating System: Red Hat Enterprise Linux AS release 4 (Nahant Update 2), kernel 2.6.9-22.El5mp, glibc 2.3.4

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.



PovRay*, Intel® Itanium® 2 Processor, Linux*



Configuration Info

• PovRay 3.1 - <http://www.povray.org/>

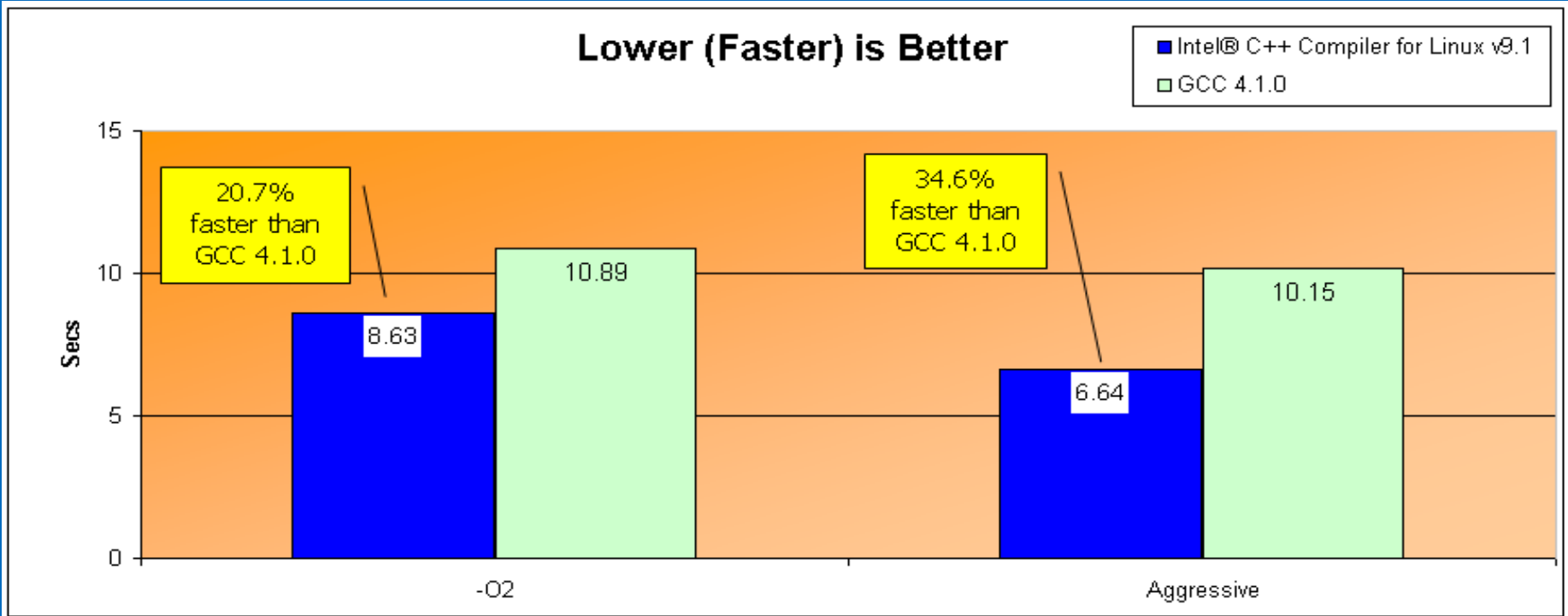
• Compilers: Intel® C++ Compiler 9.1 for Linux*, GCC 4.1.0

• Hardware & OS: Intel® Itanium® 2 Processor, 1600 MHz, 8 GB, 9M, Operating System: Red Hat Enterprise Linux AS release 3 (Taroon), 2.4.21-4.EL custom/ia64, glibc 2.3.2

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.



PovRay*, Intel® Xeon® Processor supporting Intel® EM64T, Linux*



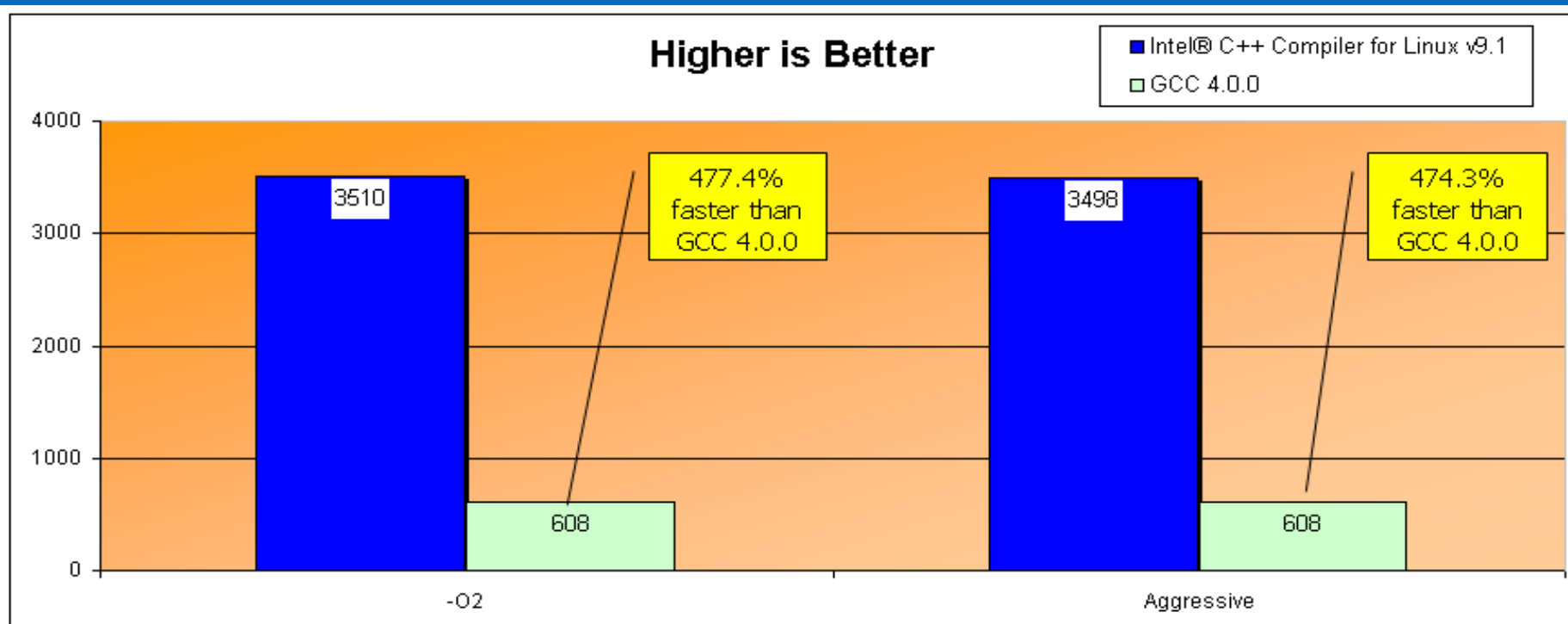
Configuration Info

- PovRay 3.1 - <http://www.povray.org/>
- Compilers: Intel® C++ Compiler 9.1 for Linux*, GCC 4.1.0
- Hardware & OS: Intel® Xeon® Processor, 3000 MHz, 8 GB, 1M, Operating System: Fedora Core release 4 (Stentz), kernel 2.6.15-1.1833_FC4smp, glibc 2.3.5

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.



STREAM*, Intel® Itanium® 2 Processor, C++, Linux*



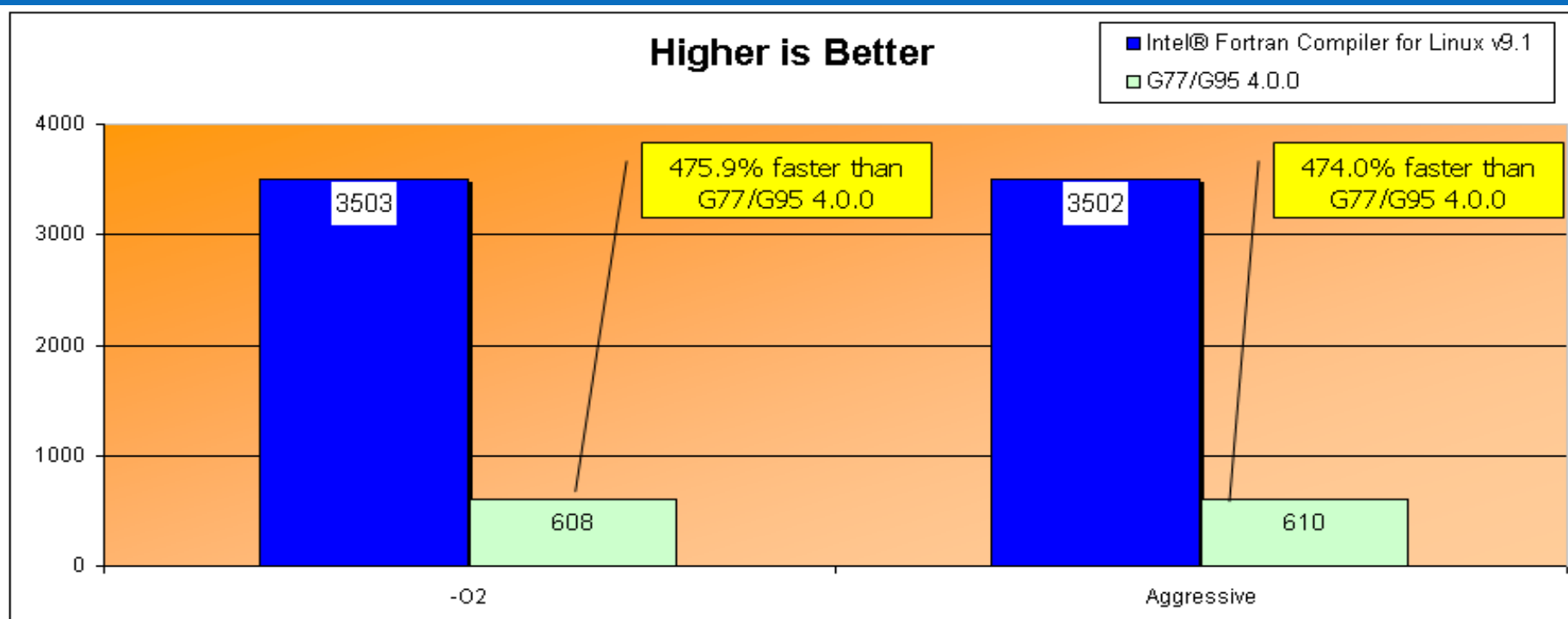
Configuration Info

- <http://www.streambench.org/>
- Compilers: Intel® C++ Compiler 9.1 for Linux*, GCC 4.0.0
- Hardware & OS: Itanium 2, 1600MHz, 16Gb, 9M, Operating System: Red Hat Enterprise Linux AS release 4, kernel 2.6.9-5.EL.10 SMP

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.



STREAM*, Intel® Itanium® 2 Processor, Fortran, Linux*



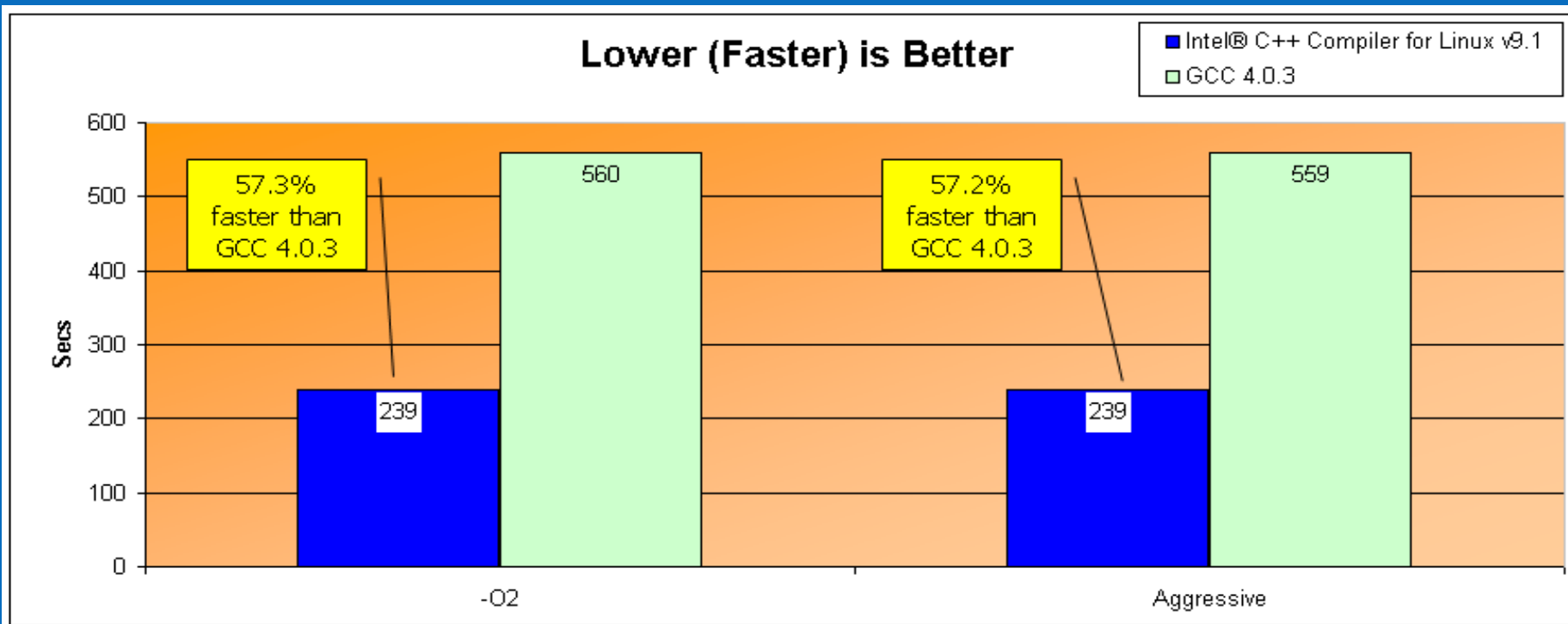
Configuration Info

- <http://www.streambench.org/>
- Compilers: Intel® Fortran Compiler 9.1 for Linux*, G77/G95 4.0.0
- Hardware & OS: Itanium 2, 1600MHz, 16Gb, 9M, Operating System: Red Hat Enterprise Linux AS release 4, kernel 2.6.9-5.EL.1.0 SMP

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.



MySQL (SetQuery), IA-32, Linux*



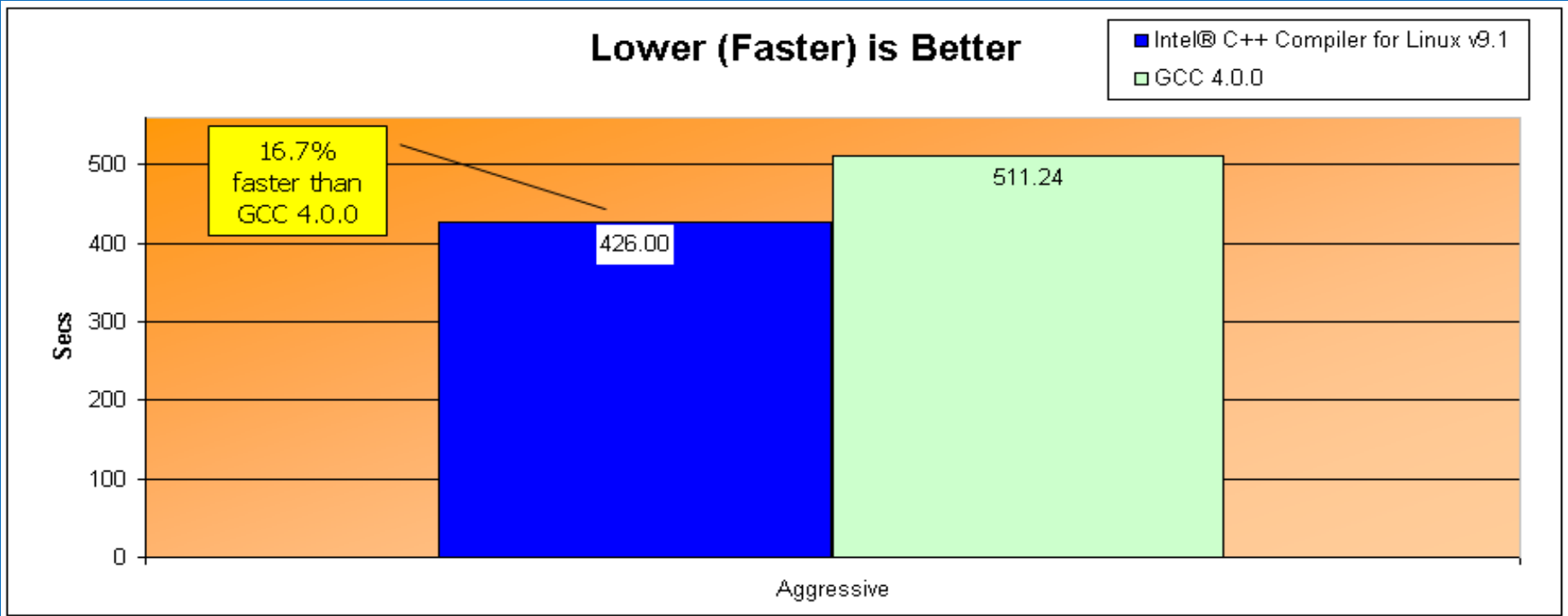
Configuration Info

- Testing supervised by MySQL AB, <http://www.mysql.com/>
- 4.1.12, libexec/mysqld --no-defaults --key_buffer=16M &
- Compilers: Intel® C++ Compiler 9.1 for Linux*, GCC 4.0.3
- Hardware & OS: Intel® Pentium® 4 Processor, 3.6 GHz, 512 MB, 1 MB L2, Operating System: Linux, kernel 2.4.21-20.EL #1

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.



MySQL (SetQuery), Itanium® 2 Processor, Linux*



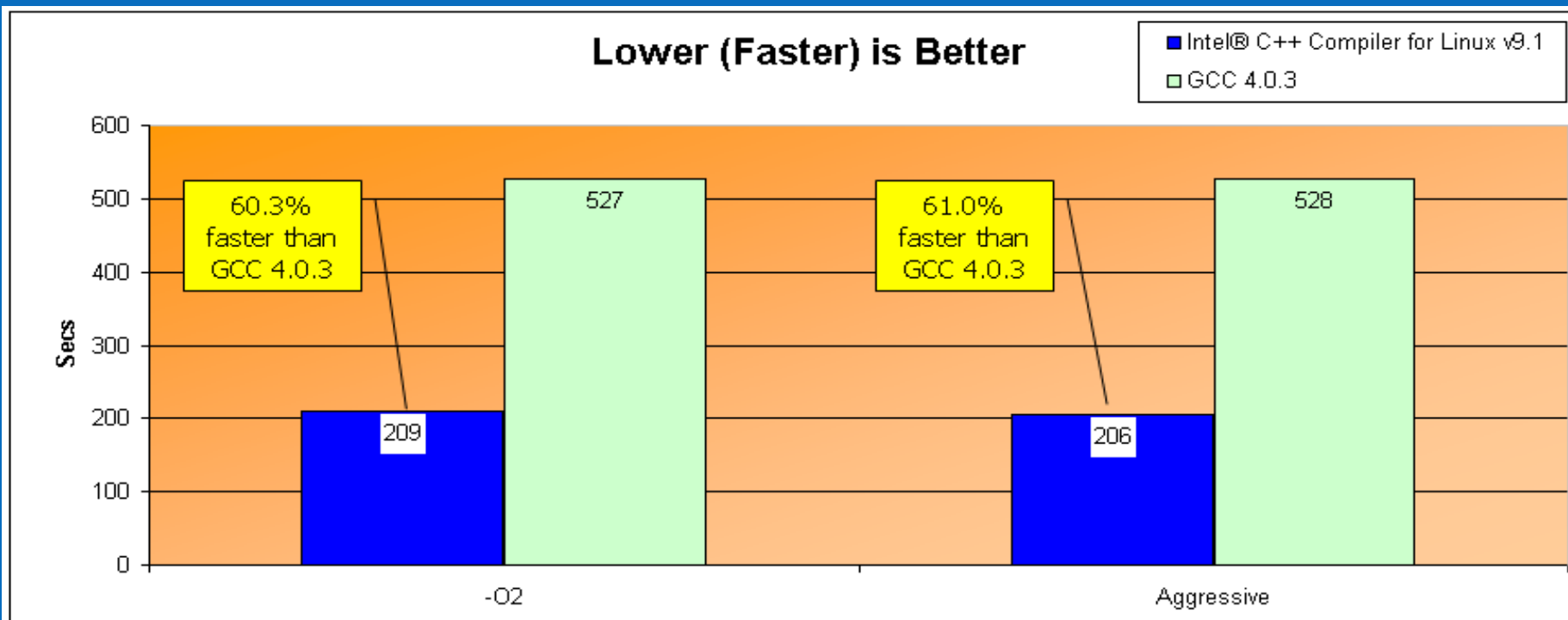
Configuration Info

- Testing supervised by MySQL AB, <http://www.mysql.com/>
- 4.1.12, libexec/mysqld --no-defaults --key_buffer=16M &
- Compilers: Intel® C++ Compiler 9.1 for Linux*, GCC 4.0.0
- Hardware & OS: Itanium 2, 1600MHz, 16Gb, 9M, Operating System: Red Hat Enterprise Linux AS release 3 (Taroon Update 2), kernel 2.4.21-15.EL.1.0

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.



MySQL (SetQuery), Intel® Xeon® Processor supporting Intel® EM64T, Linux*



Configuration Info

- Testing supervised by MySQL AB, <http://www.mysql.com/>
- 4.1.12, libexec/mysqld --no-defaults --key_buffer=16M &
- Compilers: Intel® C++ Compiler 9.1 for Linux*, GCC 4.0.3
- Hardware & OS: Intel® Xeon® Processor, 3.8 GHz., 2 GB, 1MB L2, Operating System: Linux, kernel 2.4.21-27.EL #1

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, refer to http://www.intel.com/performance/resources/benchmark_limitations.htm.

