

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*

Intel® C++ & Fortran Compiler for Windows* v9.1 (Higher is Better) Leading Compiler(s) 52.9% faster 27.6% faster than 2000 than leading leading Windows Windows compiler 1861.9 compiler 1619.4 1500 1269.2 1217.5 1000 500 0 Base Base Est. SPECint_base2000 Est. SPECfp_base2000

Configuration Info

For more information about the SPEC int2000 benchmark, visit www.spec.org/cpu2000/

Intel® C++ Compiler 9.1 for Windows*, Intel® Visual Fortran Compiler 9.1, Standard Edition, for Windows, Microsoft* Visual C, C++ 7.1, Compag Visual Fortran* 6.6C, Absoft 9.0 Compilers: Hardware & OS: Intel® Pentium® 4 Processor, 3.6 GHz., 2 GB, 1 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



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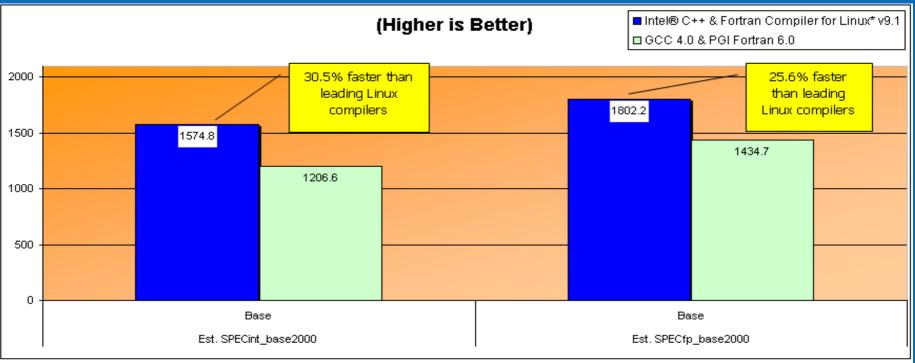
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Intel® Compiler

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

Intel® Compiler Performance Indicators



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

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

Intel® C++ & Fortran Compiler for Windows* v9.1 (Higher is Better) 25.2% faster than Leading Compiler(s) leading Windows compiler 25.6% faster than leading Windows 33.8 compiler 27.5 27 21.9 Base Base Est. SPECint_rate_base2000 Est. SPECfp_rate_base2000

Configuration Info

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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, Compag Visual Fortran* 6.6C Hardware & OS: Intel® Core™ Duo Processor, 2.0 GHz., 1 GB, 2 MB L2, Operating System: MS Windows Server 2003 Enterprise Edition, Build 3790

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Intel® Compiler Performance Indicators

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

Intel® C++ & Fortran Compiler for Linux* v9.1 (Higher is Better) GCC 4.0 & PGI Fortran 6.0 31.1% faster than 15.2% faster 40 GCC 4.0 & PGI than GCC 4.0 & Fortran 6.0 35 PGI Fortran 6.0 32 30 25 26.6 24.4 23.1 20 15 10 5 n Base Base Est. SPECint_rate_base2000 Est. SPECfp_rate_base2000 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., 1 GB, 2 MB L2, Operating System: Linux, kernel 2.4.21-20.EL #1, glibc 2.3.2-95.30

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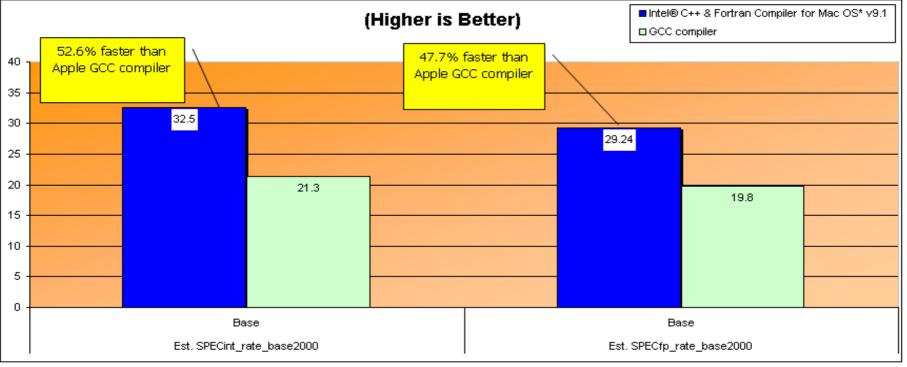
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Intel® Compiler Performance Indicators

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., 1 GB, 2 MB L2, Operating System: Mac OSX, kernel 8.4.1, glibc 0

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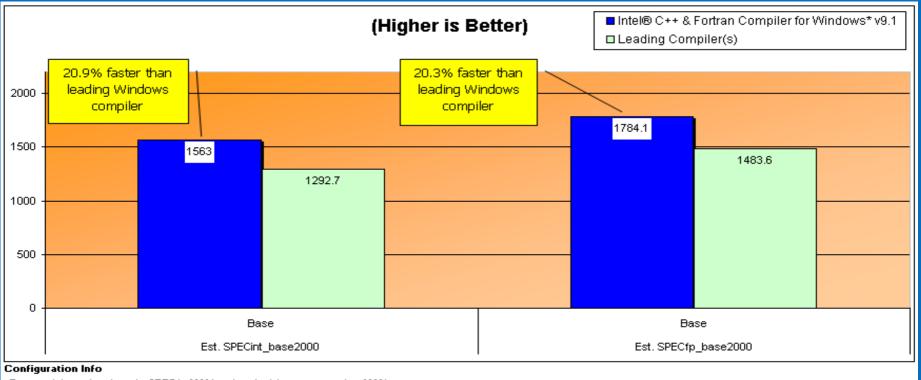
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Intel® Compiler

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

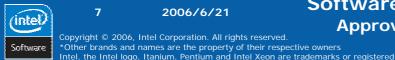


For more information about the SPEC int2000 benchmark, visit www.spec.org/cpu2000/

Intel® C++ Compiler 9.1 for Windows*, Intel® Visual Fortran Compiler, Standard Edition, for Windows, Microsoft Visual Studio* 7.1 C++, Compag Visual Fortran 6.6c Compilers: 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

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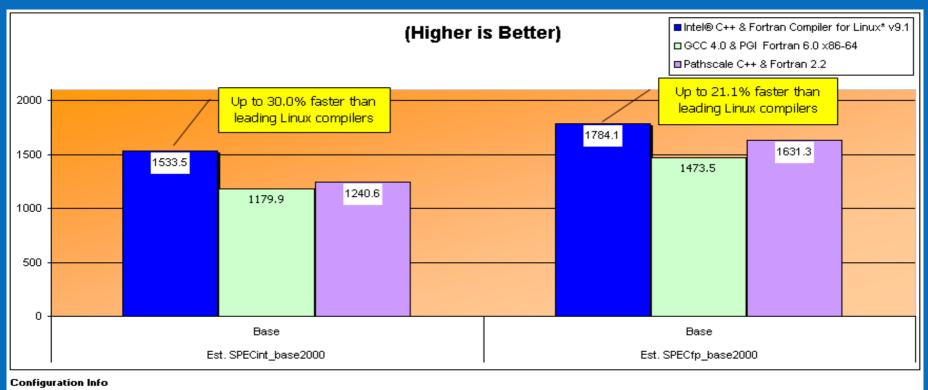
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Intel® Compiler

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



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, 1 MB L2, Operating System: Linux, kernel 2.4.21-27.EL #1, glibc 2.3.2-95.30

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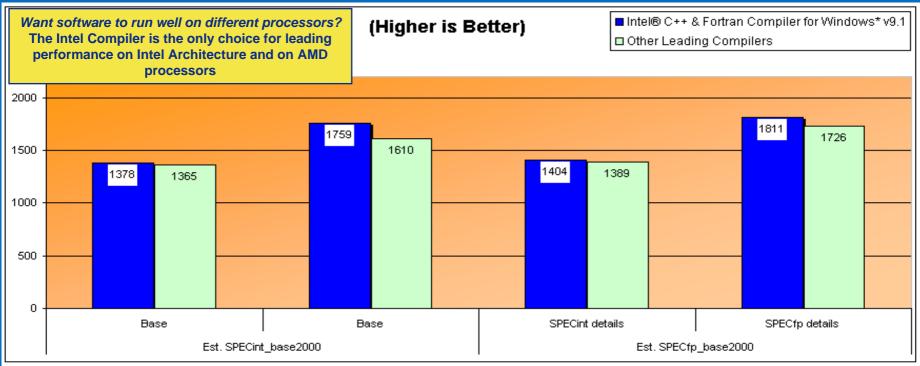
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Est. SPEC* CPU2000 V1.2, AMD Opteron*, Indicators Windows*



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: Opteron*, 2.6 GHz., 2 GB, 1 MB L2, Operating System: MS Windows Server 2003 Enterprise Edition SP1 v.1260, Build 3790

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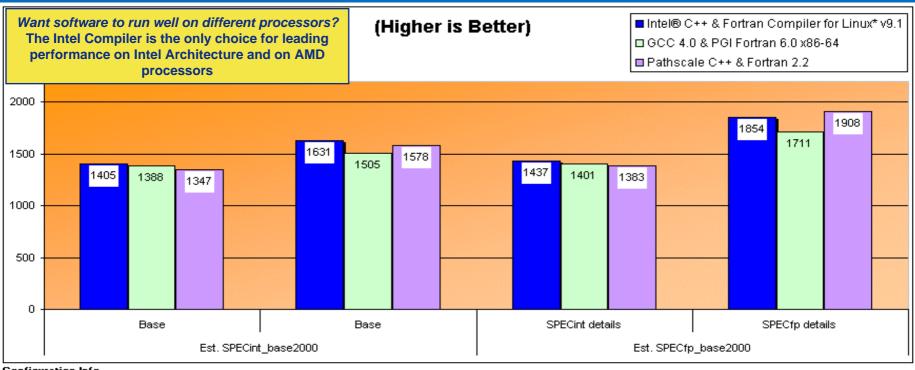
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Est. SPEC* CPU2000 V1.2, AMD Opteron*, Indicators Linux*



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: Opteron", 2.6 GHz., 2 GB, 1 MB 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/berformance/resources/benchmark_limitations.htm.



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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, 9.11Gb, 9M, Operating System: Microsoft® Windows® Server 2003, Enterprise Edition for 64 bit Itanium-based Systems, 5.2.3790 SP1 Build 3790

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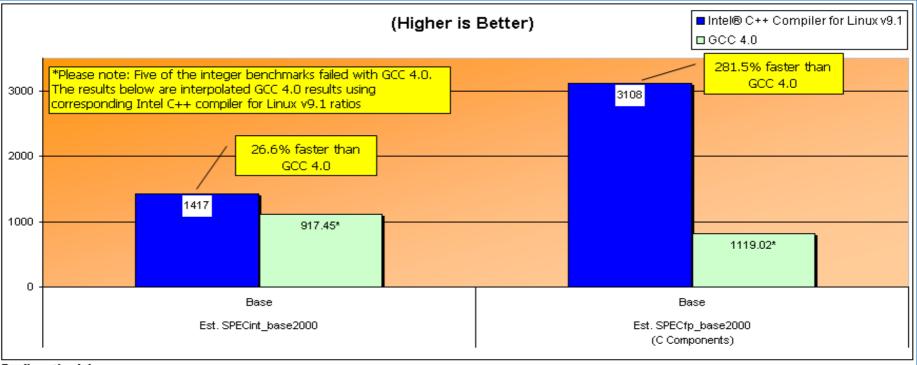
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Intel® Compiler

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



Configuration Info

For more information about the SPEC int2000 benchmark, visit www.spec.org/cpu2000/

Intel® C++ Compiler 9.1 for Linux*, GCC 4.0 Compilers:

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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 Hardware & OS:

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

Intel® Fortran Compiler for Windows* v9.1 Lower (Faster) is Better CVF 6.6a 40.00 26.6% faster than 33.61 CVF 6.6a 30.00 24.67 20.00 10.00 0.00 Polyhedron 2005 Geomean 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, Compag Visual Fortran 6.6a

Hardware & OS: Intel® Pentium® 4 Processor, 3.6 GHz., 2 GB, 1 MB L2, Operating System: MS Windows Server 2003 Enterprise Edition, Build 3790

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Intel® Compiler

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

Intel® Fortran Compiler for Linux* v9.1 Lower (Faster) is Better PGI Fortran 6.1 30.00 23.7% faster than 27.51 PGI Fortran 6.1 20.00 20.98 10.00 0.00 Polyhedron 2005 Geomean 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, 1 MB L2, Operating System: Linux, kernel 2.4.21-20.EL #1, glibc 2.3.2-95.30

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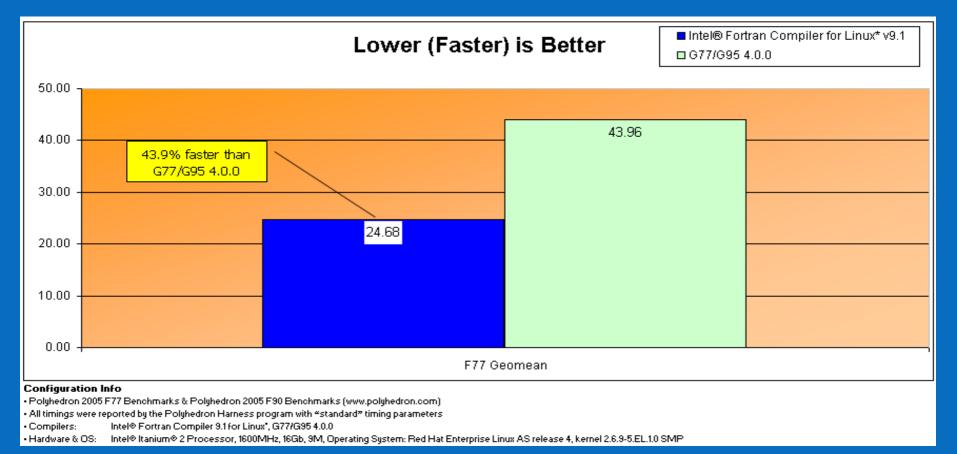


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Performance Indicators

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



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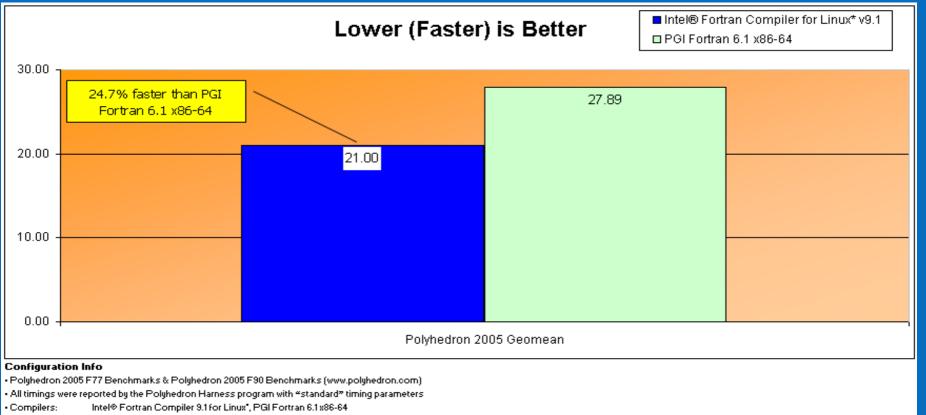


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Compiler Polyhedron 2005 F77/F90 Benchmarks, Intel® Performance Indicators Xeon® Processor supporting Intel® EM64T, Linux*



Intel® Xeon® Processor, 3.8 GHz., 2 GB, 1 MB L2, Operating System: Linux, kernel 2.4.21-27.EL #1, glibc 2.3.2-95.30 Hardware & OS:

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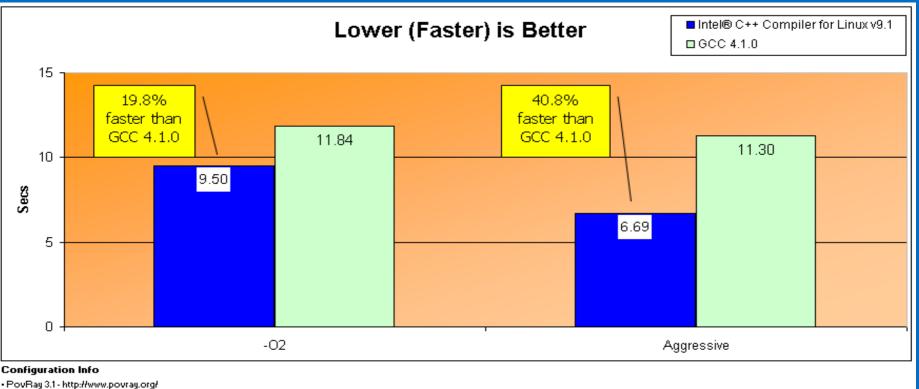
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Intel®

PovRay*, IA-32, Linux*



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

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• 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

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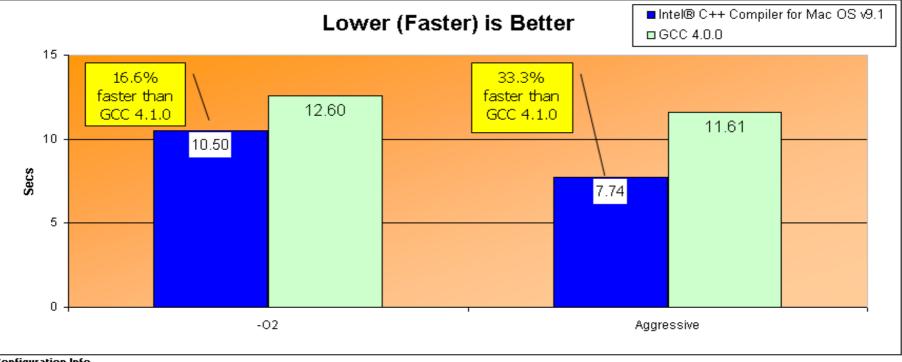
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PovRay*, Intel[®] Core[™] Duo, Mac OS*



Configuration Info

PovRay 3.1 - http://www.povray.org/

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 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

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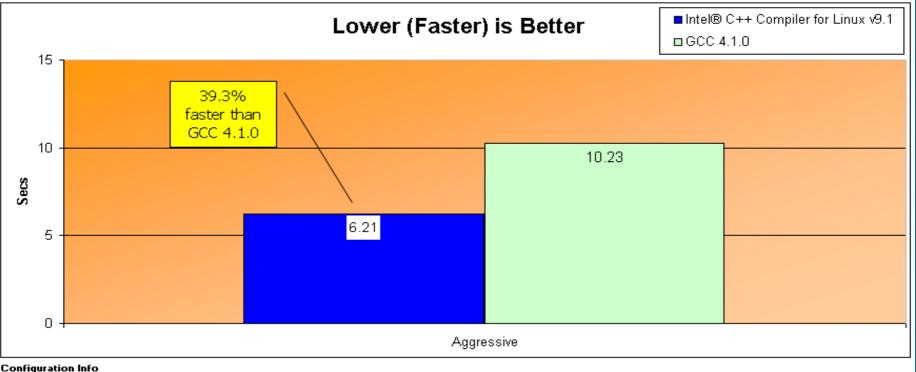
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PovRay*, Intel[®] Core[™] Duo, Linux*

Intel® Compiler Performance Indicators



PovRay 3.1 - http://www.povray.org/

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 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.Elsmp, glibc 2.3.4

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

■ Intel® C++ Compiler for Linux v9.1 Lower (Faster) is Better ■ GCC 4.1.0 14 31.1% faster than 12 12.76 GCC 4.1.0 10 8.80 8 Secs 6 4 2 Ο Aggressive

Configuration Info

PovRay 3.1 - http://www.povray.org/

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 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

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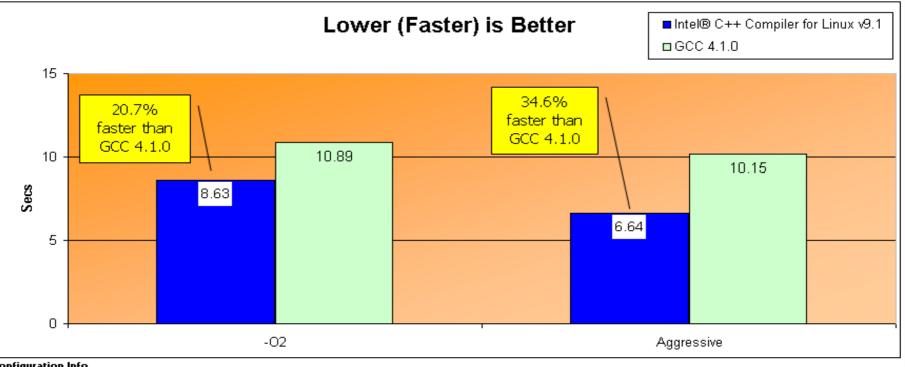
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Intel® Compiler

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



Configuration Info

PovRay 3.1 - http://www.povray.org/

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 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

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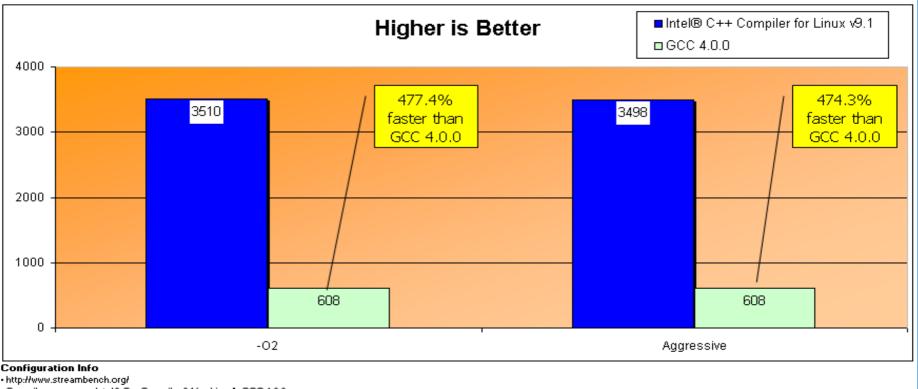
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STREAM*, Intel® Itanium® 2 Processor, C++, Linux*



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.1.0 SMP

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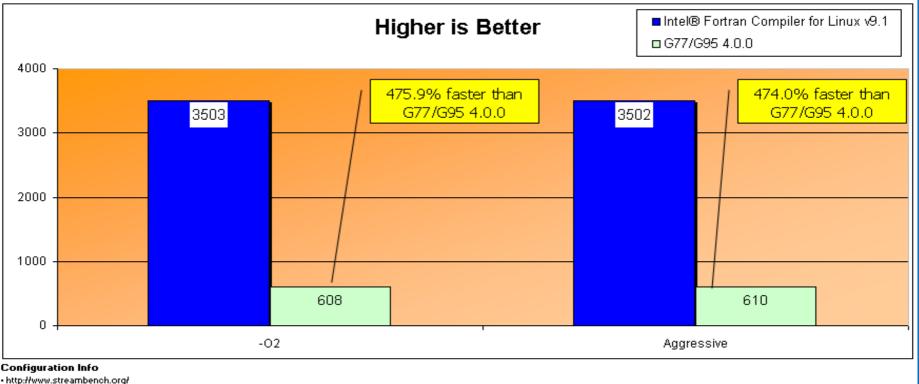


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STREAM*, Intel® Itanium® 2 Processor, Fortran, Linux*



Intel® Fortran Compiler 9.1 for Linux*, G77/G95 4.0.0 Compilers:

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 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

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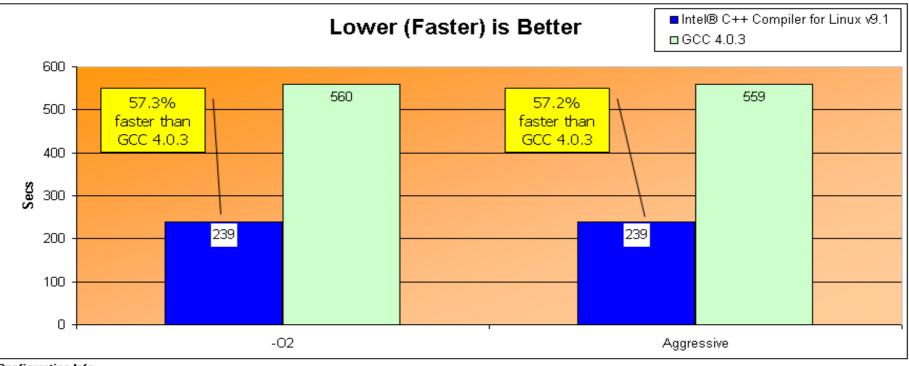


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MySQL (SetQuery), IA-32, Linux*



Configuration Info

Testing supervised by MySQL AB, http://www.mysql.com/

4.1.12, libexec/mysqld --no-defaults --key_buffer=16M &

24

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/oerformance/resources/benchmark_limitations.htm.



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



Testing supervised by MySQL AB, http://www.mysgl.com/

4.1.12, libexec/mysqld --no-defaults --key_buffer=16M &

25

Intel® C++ Compiler 9.1 for Linux*, GCC 4.0.0 Compilers:

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



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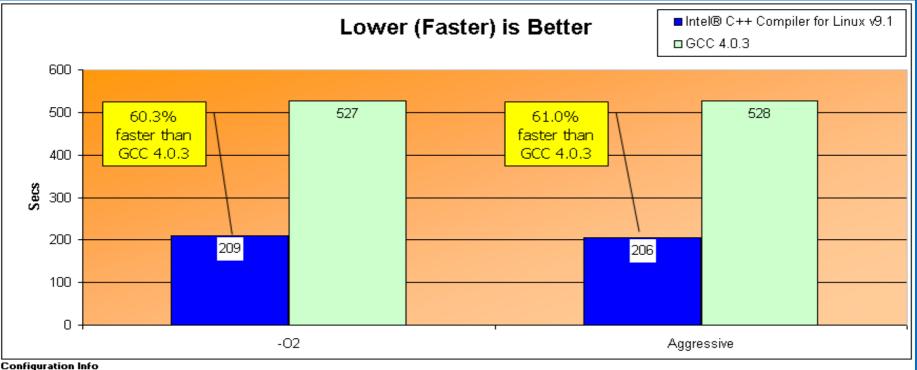
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Intel® Compiler

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

Intel® Compiler Performance Indicators



Configuration Info

Testing supervised by MySQL AB, http://www.mysql.com/

4.1.12, libexec/mysqld --no-defaults --key_buffer=16M &

26

Compilers: Intel® C++ Compiler 9.1 for Linux*, GCC 4.0.3

• Hardware & OS: Intel® Xeon® Processor, 3.8 GHz., 2 GB, 1 MB L2, Operating System: Linux, kernel 2.4.21-27.EL #1

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