

IBM Departmental Supercomputing Solutions



Innovative High Performance Computing software from IBM and Absoft brings clusters to life

Software is what turns a collection of interconnected servers into a powerful yet manageable cluster for high performance and scalable computing. The IBM Department Supercomputing Solutions are delivered with cluster management software from IBM. Downloadable trial versions of software tools from IBM partners like Absoft are available.

Through this business partnership, IBM's Department Supercomputing Solutions CD includes [compilers](#) and [debuggers](#) for high performance computing from Absoft. The collection of software helps derive maximum performance and utility from the cluster as well as ease systems management and enable rapid time-to-productivity.



Absoft strengthens partnership with IBM In a special OEM-relationship with IBM Corporation, Absoft provides IBM's high performance XL Fortran compiler and XL C/C++ compiler for Macintosh OS X to scientific and engineering customers worldwide. These popular command-line compilers feature the mature, high-performance compiler technology from IBM's compilers for AIX. High Performance Computing (HPC) customers, including customers building G5 / PowerMac-based clusters, have ordered hundreds of these compilers from Absoft.



Read the complete IBM Department Supercomputing Solutions [Press Release](#)

Fortran Compiler for Linux (64-bit) Absoft's latest Linux Fortran Compiler (Fortran 95 v9.0 for 64-bit Opterons) combines superior performance, solid reliability and the industry's most complete list of tools and libraries into a single package. New optimizations specifically designed for x86-compatible AMD64 processors deliver industry leading application performance and Absoft Fortran95 allows generation of both 32-bit and 64-bit executable programs in a single environment. For maximum efficiency at tracking down and eliminating bugs, every copy of Absoft Fortran 95 includes a copy of Fx2™, the industry-leading Fortran debugger, at no additional charge.



Absoft's Fortran 95 compiler remains unrivaled in its reliability, ease of use, and comprehensive list of features. Utilizing Cray CF90 compiler technology, Absoft compilers conform to all DoD MIL-STD 1753, FIPS 69-1, and POSIX standards, support most popular VAX/VMS extensions including RECORD, STRUCTURE, POINTER, and UNION, (per V5.4 of VMS FORTRAN), QUAD data types as well as others from IBM/VS, Cray, Sun FORTRAN and FORTRAN 66 conventions. PIC code, automatic byte swapping, full integration with gnu tools and LSB compliance means porting code from any environment with Absoft can require little more than a recompilation. Absoft Fortran 95, 'just installs' no matter what Linux configuration of glibc is used. A 2D/3D pre-compiled graphics library, pre-built BLAS, ATLAS and LAPACK90 libraries and technical support from friendly engineers is included at no additional charge.

Absoft is the only Fortran vendor offering bundle pricing on source-compatible Fortran solutions for all of today's leading platforms (Windows, Macintosh, and Linux). Save time and money with source-compatible Fortran solutions for all your development environments. Save even more money with Absoft's exclusive MaxFlex license manager which provides floating compiler licenses across different platforms.

A pre-processor for automatic parallelization and OpenMP directives is available. Cluster configurations are also an option. Technical support, service packs and software quick fixes are included with each license purchased at no additional charge.

Request a [trial version](#) of Absoft's High Performance [Fortran 95 Compiler for 64-bit Linux \(AMD64\)](#)

Fx2™ Debugging Solution Fx2™ is the most flexible and comprehensive debugging solution available for Fortran developers and also works well for C/C++ and assembler debugging. Fx2™ is the industry's most efficient debugging solution because a single copy of Fx2 is fully compatible with compilers from Absoft, gnu, Intel, PathScale, and PGI. If you use multiple compilers, Fx2™ is the most complete solution available for your debugging needs.

Fx2™ is a powerful, fully-featured source-level debugging solution. The standard Fx2™ debugging solution is configured as a scalar (single process) debugger and is compatible with most popular 32-bit and 64-bit Linux distributions. Fx2's intuitive graphical interface is designed to meet the requirements of novice and experienced programmers. A command line interface is also available. There is no better tool to help developers quickly identify and repair program trouble spots in the shortest time possible.



For developers working in parallel and distributed environments such as clusters, Fx2 is again the best choice. In parallel environments Fx2 remains compatible with all leading compilers and functions superbly as the back end debugging engine for Streamline's DDT ([Distributed Debugging Tool](#)) which can support up to 1024 simultaneous processes and give complete control of the process of debugging complex parallel code.

Request a [trial version](#) of Absoft's popular [Fx2 Debugging Solution](#).

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