

Compiler Information

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Intro

- Compilers for Intel Architecture processors have been continuously improved over the past 2-3 years
- Application performance has been improved > 25% during this period of time
- All improvements have come from processor independent compiler techniques and enhancements

**Use a “new generation” compiler
as a part of your APP development**

With on-going compiler improvements, there is tremendous benefit to be realized by using the latest compilers in your application development. These can provide performance enhancements for your applications when running on an Intel486™, Pentium®, or P6 processor.

Compiler Program Status

Versions of Compilers* w/Optimizations

including Pentium® Processor Awareness

- Absoft: Ftn, C for UNIX
- Borland: C/C++ for NT, Win32s, DOS32
- IBM: C/C++ for OS/2
- Lahey Ftn90 for DOS32
- Liant: Ftn, C for UNIX
- MetaWare: C/C++ for UNIX
- Microsoft: C/C++ for NT, Win32s
- Microsoft: Fortran for NT, Win32s
- SCO: C for SCO UNIX
- SunPro: C/C++, Ftn for Solaris
- USL: C for UNIX SVR4
- WATCOM: C/C++, Ftn for NT, Win32s,
DOS32, OS/2

Gen'l Availability

- Now (4/93)
- Now (Q4'93)
- Now (6/93)
- Now
- Now
- Now (6/93)
- Now (8/93)
- Now (11/93)
- Now (3/93)
- Now (5/93)
- Now (Q4'92)
- Now (6/93)

**Most optimizing compilers have been
available since Summer '93!**

*other brands and names are property of their respective owners.

Above is a quick list of compilers optimized for the Intel Architecture in general (with Pentium® processor awareness built into the code scheduling) over the last 2 years. The first formal release of Proton (Intel's reference compiler whose purpose is to offer new compiler technology to the industry) was in March '93. Commercial compilers were close on its heels, as we had been working with partners in parallel.

We continue to work with all these vendors to help them to produce better and better optimizations as the state-of-the-art advances in compiler technology. We also continue to work with these vendors to move P6 awareness into their compilers in both a blended and processor-specific sense. As these vendors bring their latest compilers to market, we will see a growing list of P6 support.

Again, using these modern 'blend-aware' compilers will benefit your applications whether they're running on an Intel486™, Pentium®, or P6 processor.

Suppliers of Optimizing Compilers for Intel486™ and Pentium® Processors (Page 1 of 4)

Absoft Corporation

2781 Bond Street
Rochester Hills, MI 48309
Contact: Wood Lotz
Telephone number: USA: (313) 853-0050
International: (313) 853-0050

C++, F77, Debuggers, SVR4, Windows NT, UnixWare

- 32-bit globally optimizing compilers and multi-language debugger
- Windows NT and Motif GUIs
- Optimizations for Intel486 and Pentium processors
- F77 v3.2 for Windows NT, v3.14 for UNIX optimizing compiler generally available now
- C++ v1.0 optimizing compiler available in the second half of 1994

Borland International, Inc.

100 Borland Way
Scotts Valley, CA 95067
Telephone: in USA: (800) 336-6464 x7090
Canada: (800) 461-3327
International: (408) 431-1000

BC++ 4.0 for Windows, Windows NT and DOS

- Fully customizable and open Windows-hosted desktop
- Ability to target 16- and 32-bit Windows simultaneously
- Visual code generation and navigation tools
- Fully integrated professional editor featuring BRIEF® technology
- Powerful Turbo Debugger® GX and integrated C and C++ VBX control support
- Optimizing compiler generally available now

IBM Corporation

844 Don Mills Road
Station 22, Department 394
North York, Ontario
Telephone number: USA: (800) 342-6672
International: (914) 765-6443
Canada: (800) 465-7999

IBM C Set ++ V2.1 for OS/2

- Includes both C and C++ compilers which are fully ANSI compliant including support for templates and exception handling.
- State of the art optimization for Intel386™, Intel486 and the Pentium processor.
- Full suite of tools integrated through Workframe/2, an open integration environment including C/C++ PM interactive source level debugger, a browser, EXTRA: a graphical execution trace analyzer and a full suite of class libraries, including a user interface class library.
- C Set++ is generally available now

Suppliers of Optimizing Compilers for Intel486™ and Pentium® Processors (Page 2 of 4)

Lahey Computer Systems, Inc.
865 Tahoe Blvd.
Box 6091
Incline Village, NV 89450
Contact: Sales
Telephone number: (800) 548-4778
International: (702) 831-2500

Liant Software
959 Concord Street
Framingham, MA 01701-4613
Contact: Sales Dept.
Telephone number: USA: (800) 237-1873
(508) 872-8700
Europe: (44) 71-799-2434

MetaWare Incorporated
2161 Delaware Avenue
Santa Cruz, CA 95060-5706

Contact: Technical Sales
Telephone number: (408) 429-6382
FAX Number: (408) 429-9273
Internet: techsales@metaware.com

F77L-EM/32 and Lahey Fortran 90

- EM/32 -- 32-bit Fortran 77 language system with Fortran 90 features. Tools include: Phar Lap 386/DOS-Extender, Editor, Debugger/Profiler, Make, Video Graphics
- Lahey Fortran 90 - 32-bit language system. Full implementation of Fortran 90 Standard
- Optimizing compiler generally available 2nd Qtr. '94.

LPI-Series High Performance Compilers for UNIX SVR3 and UNIX SVR4

- LPI-FORTRAN V3.6, LPI-C V2.2, LPI-COBOL V7.0 and Open PL/I V5.0 optimized for Intel486 and Pentium processors
- Industry standard languages bundled with CodeWatch, a powerful X/Motif source-level debugger
- Key extensions

High C/C++ 3.1

- High performance optimizing compiler and tools featuring templates, function inlining and exceptions
- Extended DOS, Windows 3.x, Windows NT, OS/2 UNIX, and others
- Optimizations for Intel486 and Pentium processors
- Optimizing compiler available now

Suppliers of Optimizing Compilers for Intel486™ and Pentium® Processors (Page 3 of 4)

Micro Focus
2465 East Bayshore Road, Suite 400
Palo Alto, CA 94303
Contact: Sales
Telephone number: USA: (415) 856-4161
England: 0635 32646. Japan: 3 3486 7791

Micro Focus COBOL V3.2 for DOS®, Windows™, OS/2 and UNIX

- High performance optimizing compilers for multiple operating systems on Intel486 and Pentium processors
- Client-server application development
- Network programming API
- Enhanced SQL support
- Object code compatibilities
- On-line COBOL reference
- Optimizing compiler generally available May 1994

Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399
Contact: Sales
Telephone number: USA: (800) 227-4679
International: (206) 936-8661

Visual C++ and FORTRAN PowerStation 32 for Windows NT™

- Advanced optimizations for Intel386™, Intel486 and Pentium processors
- Visual C++ Compiler used to build Windows NT
- Win 32 and Win 32s targeting
- Optimizing compiler generally available now
- DEC® VAX®, IBM® VS & SAA™ Fortran extensions; Fortran 90 subset
- Integrated development environment includes editor, debugger, browser, make facility, on-line help

The Santa Cruz Operation
425 Encinal Street
Santa Cruz, CA 95061
Contact: SCO Developer Hotline
Telephone number: USA: (408) 427-7230
International: (408) 427-7230

SCO Optimizing C Compiler V1.3.8

- The SCO development environment hosts this optimizing C compiler for the Intel486 and Pentium processors.
- Optimizing compiler generally available now

Suppliers of Optimizing Compilers for Intel486™ and Pentium® Processors (Page 4 of 4)

Novell Unix Systems Group

190 River Road
Summit, NJ 07901
Telephone number: USA: (800) 828-UNIX
International: (801) 429-7000

Optimizing C Compiler v3.0 for UNIX SVR4.2 MP and Unix Ware 1.1

- Optimized for Intel486 and Pentium processor-based systems
- Binary and source products are available now from Novell's UNIX Systems Group

WATCOM

415 Phillip Street
Waterloo, Ontario N2L 3X2
Contact: Deanne Farrar
SDK.
Telephone number: USA: (519) 886-3700
scheduling
Toll Free: 1-800-265-4555
International: (519) 886-3700
email address: tech@watcom.on.ca
WATCOM Faxback Information System:
(519) 747-2693

C/C++³² V9.5 and FORTRAN 77³² V9.5 for Multiple Platforms, C³² for DOS V9.5

- Toolsets for all products include compiler, linker, debugger, profiler, royalty-free DOS extender with 32MB VMM support and much more. C/C++³² and FORTRAN 77³² toolsets also include licensed Microsoft 3.1 SDK, OS/2 2.1 Toolkit and NetWare 4.0
- All compilers feature advanced processor optimizations including instruction scheduling for the Intel486 and Pentium processors
- C/C++³² V9.5 supports extended DOS, Novell NLM, OS/2 2.x, Windows NT, Win32s, 32-bit Windows 3.x and AutoCAD ADS/ADI. AT&T v3.0 C++ support including templates, plus exception handling.
- FORTRAN 77³² features FORTRAN 90, DEC VAX, Microsoft and IBM VS extensions
- Optimizing compilers generally available now