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Dear Developer,

The MIPSpro 7.2.1 release introduces several changes in the development environment for IRIX.

OpenMP support in Fortran 77, Fortran 90, and ProMPF

OpenMP is a multi-company consortium to develop and support common shared-memory parallel programming API's for various languages on UNIX and Windows NT systems. The OpenMP consortium's initial API for parallel shared-memory Fortran programming was finalized and announced in the fall of 1997 and is supported in this release, specifically in MIPSpro 7.2.1 Fortran 77, Fortran 90, and ProMPF 2.8. For more information on OpenMP see the website at *http://www.openmp.org*.

IRIX 6.5, IDF, and IDL

The IRIX Developer Foundation and IRIX Developer Libraries CDs for IRIX 6.5 will ship with the operating system CDs. A new version of IDF (1.1) and the 1.0 version of IDL for IRIX 6.2, 6.3, and 6.4 ships with each compiler, as will IDF 1.1 for IRIX 6.5.

Note: You should look in your IRIX 6.5 CD set for IDL for IRIX 6.5

Look in the IDF release notes for installation information.

Speedshop 1.3 supports IRIX 6.5 pthreads.

C++ Enhancements

MIPSpro 7.2.1 C++ provides support for the string class in conformance with the ANSI standard, while continuing to support the rope class for increased performance.

Names in the standard libary are now in the standard C++ namespace, so standard header files can now be included without the trailing .h.

Inline Memory Intrinsics

There are a number of new options (-OPT mem_intrinsics[=(OFF | ON)], memcpy_cannot_overlap[(OFF | ON)], etc.) which control the inlining of memory intrinsics. See the compiler_dev relnotes for more information.

Query Extension Mechanisms

The Query Extension Mechanism allows SGI engineers to add new features to libraries which Apps developers can detect and (optionally) use while maintaining binary compatibility. Note that one set of binaries that leverage new features on a new system can run on older systems that don't have support the particular feature.

Licensing

MIPSpro 7.2.1 will run with MIPSpro 7.2 licenses. Licensing mechanisms and options are unchanged from MIPSpro 7.2 to 7.2.1.

ProDev Workshop Evaluations

ProDev Workshop evaluation software is included on the IRIX Development Foundation CD. Evaluation licenses can be obtained by visiting *http://www.sgi.com/Products/license.html*, by sending an email to demolicense@sgi.com, or contacting your local SGI office.

SpeedShop User's Guide

The version of the SpeedShop User's Guide contained on the CD is not the most recent version of the manual. To view the most recent version of the manual, go to the following URL. You can also download both PostScript and Adobe Portable Document Format (PDF) versions of the manual from this site:

    http://techpubs.sgi.com/library/lib/makepage.cgi?007-3311-003

The new version of the manual contains updated examples and descriptions of the examples. The new examples reflect changes to the output from the prof(1) command. New columns of information have been added and, in some cases, the column headings have changed.