

Harris Exploration, bereit zum Durchstarten! (Frank: EFD / HXPN.F)
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Harris Exploration, Inc. (Frankfurt: EFD.F / HXPN.F), wir erwarten ein Kursfeuerwerk am Deutschen Aktienmarkt, in dieser Woche, Aufgrund von aussichtsreichen Erkenntnissen anstehender Untersuchungsbohrungen, erwarten wir Kursgewinne von bis zu 300 % in den nächsten 5 Handelstagen. Des Weiteren, HXPN startet diese Woche eine Marketing Kampagne, um den Bekanntheitsgrad bei Investoren zu stärken. Wir alle kennen das Gesetz von Angebot und Nachfrage. Dies alles, gekoppelt mit einem starken Management Team, einem ausgezeichneten News flow und einem grundsoliden Portfolio, wird HXPN durchstarten lassen. Wir prognostizieren einen Aktienkurs von 0,75 bis Freitag, diese Woche. Wir empfehlen unseren Lesern noch vor diesem Mittwoch zu investieren, weil wenn die Marketing Kampagne läuft, wird der Kurs explodieren. Wir empfehlen bis 0,65 zu kaufen Wir erwarten diesen Kurslevel im Verlauf des Donnerstag vormittags.

There are a variety of ways to handle this.

The implementation behavior is not so straightforward.

So for performance tuning, trying `-fast` is a great place to start.

This could be done in the inline code as well; however, it would be much longer and complicated to write by hand.

il, which looks like a function call in the code.

Sun Studio compilers provide the flexibility to do either, which benefits developers.

When a thread encounters a parallel construct, it creates a new team of threads composed of itself and zero or more additional threads, and becomes the master of the new team.

Since WAS servers are Java-based, the `"-j on"` option to `collect` is always needed.

For example, `startServer`.

Then, replace `"exec"` in the script with `"collect -j on"` as shown below.

The `-fast` flag is an umbrella flag that invokes a collection of flags in the correct dependency order to achieve optimization.

Project D-Light is documented in a tutorial that is linked to from the `README` file.

The compiler interprets the pragmas and parallelizes the code.

When you are ready to parallelize your program, there are a number of features and tools in Sun Studio that can help you achieve that goal.

Where Do I Go To Get Help?

Since not all requests are required, one of the possible error codes returned is that the request is not implemented.

Refer to the OpenMP User's Guide for details.

Those frames are recognized because they come from the OpenMP runtime shared object whose name is known.

You may specify it either as an absolute path to wherever you have installed the tools, or as the command name only, provided you have set your path to include the installation location.

Prior to joining Sun, Albert worked on various software development contracts at NASA Johnson Space Center.

There are several reasons this might be the case.

So for performance tuning, trying `-fast` is a great place to start.

This behavior is for backward compatibility reasons.

When using compilers that are not OpenMP-aware, the OpenMP pragmas are silently ignored.

The first is to reconstruct the user-model callstacks from the measured implementation-model callstacks.

The general rule is to make the number of threads no larger than the number of cores in the system.

For example, `startServer`.

Introduction OpenMP has become a very successful user-model for developing parallel applications, widely adopted and supported.

Since most developers want good performance with little time and effort, this raises an important question.

In that case, the master-callstack-preface is synthesized from its recorded call stack, and the master-callstack-preface of its parent, much as user-model profile callstacks are synthesized above.

The user-model of that behavior has the main, or master, thread executing just as a single-threaded program.

However, it does not perform quite as well as the `-fast` method.

With inline code, there is no jump, so the stack pointer can continue without interruption.

In the parallelized loop, variables `array`, `ncols` and `nrows` are shared among the threads, while variables `ii`, `jj`, and `kk` are private to each thread.

, analyzing, optimizing the performance and helping customers of WebSphere family of products on Sun Solaris platform.

Generate a copy of the WAS start-up script so that we can modify it to include the "collect -j on" option.

Tracing technologies have the advantage that they can capture all the relevant events describing the runtime behavior of the application, but the overhead of tracing can be substantial.

When using compilers that are not OpenMP-aware, the OpenMP pragmas are silently ignored.

The second stream is a trace of timestamped profile packets.

Before coming to Sun as part of the acquisition of Dakota Scientific Software, Paul worked in the Advanced Computing Laboratory at the Los Alamos National Laboratory.

The compiler interprets the pragmas and parallelizes the code.

Most implementations rely on the OpenMP runtime to create and to manage the additional threads, and when those threads run, their callstacks, as seen from a profiler do not match the user-model.

See the OpenMP User's Guide for details.

If -fast shows significant improvement, then it might not be worth all the effort to write inline assembly code.

In the third section, we describe navigating through the measured performance data.

OpenMP Runtime Routines OpenMP provides a number of runtime routines that can be used to obtain information about threads in the program.

The server is now ready to be run with collector.

This API could equally well support an alternate tracing-based collector, although this would require additional implementation in the OpenMP runtime.

In addition to the standard OpenMP environment variables, Sun Studio compilers provide an added set of Sun-specific environment variables that offer more control of the runtime environment.

These are held in registers.

If you want to examine it on a different machine, you should set "-A copy" to make the experiment more portable.

You can invoke this script from anywhere as it does not have any relative path info.

il to the compile line and the Sun Studio compiler will search for the .

Before coming to Sun as part of the acquisition of Dakota Scientific Software, Paul worked in the Advanced Computing Laboratory at the Los Alamos National Laboratory.

What is a Sun Studio Express Build?

What is more interesting is that OpenMP can be used with MPI.

The OpenMP runtime does not need to do anything until and unless that request is made.

Conclusions We have described the challenges in measuring performance of OpenMP programs and described some existing tools used for profiling.

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mod file, these warnings are harmless.

You can name this script arbitrarily.

OpenMP is a widely accepted specification, and vendors like Sun, Intel, IBM, and SGI support it.

It addresses two difficult problems in OpenMP performance measurement: the presentation of performance data in the user model, and the understanding of the behavior of the OpenMP runtime.

Initiating Data Collection This section describes how you can modify the scripts used to launch WAS servers to enable data collection.

OpenMP pragmas enable you to use an elegant, uniform, and portable interface to parallelize programs on various architectures and systems.

Since not all requests are required, one of the possible error codes returned is that the request is not implemented.

end For calculation of the Mandelbrot set, the inline code first needs to read the four input values.

It should be a locally-mounted, as opposed to NFS-mounted, file system.

il, which looks like a function call in the code.

For clock-profiling, the metrics include Total-time, User-CPU-Time, System-CPU-Time, and a number of others.

Writing assembly code is not trivial for most people.

The examples demonstrate two different methods for improving performance with the Sun Studio compiler: using flags and using inline assembly code.

The interface is intended for the OpenMP runtime to know little about the collector, and for the collector to know little about the OpenMP runtime, giving each the freedom to evolve independently.

For example, you may want to look at the startup only, or you may want to look at the data for the individual benchmark loads that were run.

Where Do I Go To Get Help?

Descendant Process Controls As WAS Servers usually do not spawn additional processes, the command option "-F on" is not needed.

When looking at the Timeline in Analyzer, you may want to color methods from the WAS infrastructure all one color, and use other colors to look at specific sections of your code.

These are described in the OpenMP User's Guide.

More information about the collect and analyze can be found in collect.

The first problem to resolve is that of rendezvous, that is, how the OpenMP runtime and the collector can find each other.

You can also use the -d argument to specify a directory into which the experiments should be stored.

It mandates functionality in the OpenMP runtime, but requires no compiler support.

What is more interesting is that OpenMP can be used with MPI.

All requests from the collector to the OpenMP runtime are made as subsequent requests to that routine.

If the warnings are bothersome, the .

This difference is exposed by the tools, which will show the mfunction called from the introduced call site in the routine from which it is abstracted.

The OpenMP runtime does not need to do anything until and unless that request is made.

In the third section, we describe navigating through the measured performance data.

Also, the ABI defines what register is used to pass a parameter back to the calling routine.

What is more interesting is that OpenMP can be used with MPI.

The longer the iteration, the more beneficial inline code becomes.

You may name experiments with a -o argument specifying a file name including the name of the server, followed by ".

It does not, however, provide a standardized interface that can be used for profiling.

You may name experiments with a -o argument specifying a file name including the name of the server, followed by ".

il to the compile line and the Sun Studio compiler will search for the .

These files allow the compiler to check subroutine and function call parameter lists for type, number, and shape consistency.

Seriously, you need to read it for information on how to install and use the tools.

One is that the Mandelbrot set iterates very few times for many points in the array.

degree in Computer Science from University of Houston, Clear Lake.

The tool also provides work and wait metrics, attributed to functions, source lines, and instructions, that can help you identify bottlenecks in an OpenMP program.

The answer is that -fast doesn't always perform better than inline code.

But for support questions, see the support page.

Of course, you can call the module file anything you like.

If the state at the time the packet was recorded was OpenMP work, no pseudo-function is appended.

If supported, it could request events for all possible events in the life of the process and record those events with their thread ID and timestamps.

It is beneficial to insert the pragma at the outermost loop, since this gives the most performance gain.

It is recognized when a fork event shows that it came from a thread with a non-zero parent-parallel-region-ID.

Explicit declaration changes could be made in the source itself.

Be sure to maintain timings of your serial run, so that you can decide if parallelization is useful.

There are two main technologies used for performance measurement on OpenMP programs: tracing and statistical profiling.

This behavior is for backward compatibility reasons.

An example a modified script with the collect command can be found in the file start-collector.

Before joining Sun, Dileep held various software architecture and development roles in India.

There are a variety of ways to handle this.