Subject: IDL on supercomputing cluster?
Posted by Sid[1] on Mon, 24 Dec 2007 10:18:38 GMT
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Hello,

I am wondering if it is at all possible for IDL to thread processes in
a supercomputing cluster.

Here are the specifications of the clusters:

1. 64 bit 16 quad AMD Opteron (Rev F) 2218 Dual Core Processors, 2.60
Ghz; total 16*16GB RAM, Loading Sharing Facility (LSF) with Simple
Linux Utility for Resource Management (SLURM)

2. 64 bit 8x4 AlphaServer ES45 68/1250 Systems, 1.25 GHz; total 76GB
RAM on 8 nodes

Thanks very much.

Subject: Re: IDL on supercomputing cluster?
Posted by David Fanning on Mon, 24 Dec 2007 14:51:38 GMT
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Sid writes:

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I think you will be VERY interested in the products from
Tech-X Corporation, which allow IDL to be used in exactly
this way:

http://www.txcorp.com/products/FastDL/

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: IDL on supercomputing cluster?
Posted by edkase on Wed, 26 Dec 2007 16:19:20 GMT
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Sid,

FastDL (http://www.txcorp.com/products/FastDL/) from Tech-X Corporation enables IDL processing in a cluster computing environment for your Linux system. Our solution has not been ported to any Alpha-based systems. FastDL supports two methods of parallel computing.

1) TaskDL supports task farming, a form of parallel computing where the processes do not need to communicate while computations occur. You may combine the results at the end. An example application would be rendering frames of an animation in separate processes, and then combining the sequence of frames into a movie. Other examples would include parameter sweeps or Monte Carlo simulations.

2) mpiDL supports full interprocess communication during computations using the Message Passing Interface (MPI). For example, you may process tiles that are a subset of a larger image and need to communicate values along the edges of neighboring tiles to ensure a consistent result when the larger image is viewed in total.

If you have interest in these solutions, please contact sales@txcorp.com. Thank you.

Ed Kase
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Boulder, CO 80303
P: 303-444-2416
F: 303-448-7756
ekase@txcorp.com
www.txcorp.com

On Dec 24, 3:18 am, Sid <malu.s...@gmail.com> wrote:
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