Subject: multi-core computing in IDL
Posted by markb77 on Thu, 13 Aug 2015 09:52:48 GMT
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hi all,

Now that we've reached IDL 8.5, are we any closer to a solution that enables IDL code to take advantage of multiple cores of the CPU for calculations? (I'm not talking about the IDL thread pool, which is restricted to specific functions). Does the IDL-Python bridge help in some way? I know that python offers a "thread" api.. ?

thanks
Mark

Subject: Re: multi-core computing in IDL
Posted by markb77 on Thu, 13 Aug 2015 11:17:45 GMT
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btw, I'm also referring only to code that is virtual machine compatible, which seems to be the major limitation of the IDL-IDL bridge...

Subject: Re: multi-core computing in IDL
Posted by chuxiangning on Thu, 13 Aug 2015 18:32:33 GMT
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On Thursday, August 13, 2015 at 2:52:50 AM UTC-7, superchromix wrote:
> hi all,
>
> Now that we've reached IDL 8.5, are we any closer to a solution that enables IDL code to take advantage of multiple cores of the CPU for calculations? (I'm not talking about the IDL thread pool, which is restricted to specific functions). Does the IDL-Python bridge help in some way? I know that python offers a "thread" api.. ?
>
> thanks
> Mark

Hi Mark,
   I have used idl_bridge to use multiple CPUs. So far so good if threads don't need data interaction.

Subject: Re: multi-core computing in IDL
Posted by chris_torrence@NOSPAM on Thu, 13 Aug 2015 21:35:06 GMT
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On Thursday, August 13, 2015 at 12:32:35 PM UTC-6, chu xiangning wrote:
> On Thursday, August 13, 2015 at 2:52:50 AM UTC-7, superchromix wrote:
>> hi all,
>>
>> Now that we've reached IDL 8.5, are we any closer to a solution that enables IDL code to take advantage of multiple cores of the CPU for calculations? (I'm not talking about the IDL thread pool, which is restricted to specific functions). Does the IDL-Python bridge help in some way? I know that python offers a "thread" api.. ?
>>
>> thanks
>> Mark
>
> Hi Mark,
>   I have used idl_bridge to use multiple CPUs. So far so good if threads don't need data interaction.

Hi all,

Well, the IDL Python Bridge by itself doesn't bring IDL any closer to multi-core (or parallel) computation. By the way, Python itself isn't thread-safe, and needs to jump through a lot of gyrations to use threads...

We *are* thinking about parallel IDL, and we have an outline of what needs to be done. We just need time & people. :-)

We could certainly share more information when we get closer to designing the API.

-Chris