Subject: IDL_IDLBRIDGE across several computers
Posted by Pedro.Rodriguez.Pascu on Wed, 17 Jun 2015 16:49:05 GMT
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Hello,

does anyone know if it is possible to make IDL_IDLBRIDGE to create and control IDL sessions on other computers?

Thanks,

Pedro

Subject: Re: IDL_IDLBRIDGE across several computers
Posted by Jim Pendleton on Thu, 18 Jun 2015 04:16:56 GMT
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On Wednesday, June 17, 2015 at 10:49:08 AM UTC-6, pedro.rodri...@gmail.com wrote:
> Hello,
>
> does anyone know if it is possible to make IDL_IDLBRIDGE to create and control IDL sessions on other computers?
>
> Thanks,
>
> Pedro

No the IDL_IDLBridge objects can only *directly* access process data on the same node.

You would need something more like Remote Procedure Calls (described in the IDL External Development Guide), which are low level. Or you could SPAWN off other IDL processes and find an effective way to communicate between them such as through shared memory segments.

If you're looking for higher level semantics, your bridge executions encapsulate discrete "tasks" with inputs and outputs, (and you have a budget), the ENVI Services Engine is more aligned with this goal. This is a separate product and though the name includes "ENVI", there's no requirement to use it in your processing.

But if your needs are somewhere in between, keep an eye out for an end-of-June IDL Data Point blog on the exelisvis.com website where I'll discuss the coming-in-8.5 offically documented support for server side SOCKETs. You would still need to build your own protocol for exchanging physical data between the processes, but it's generally a manageable goal for problems of midling complexity.

Jim P
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Subject: Re: IDL_IDLBRIDGE across several computers
Posted by Jim Pendleton on Thu, 18 Jun 2015 04:24:55 GMT

On Wednesday, June 17, 2015 at 10:49:08 AM UTC-6, pedro.rodri...@gmail.com wrote:
> Hello,
>
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>
> Thanks,
>
> Pedro

[Sorry in advance if the deletion of my previous reply didn't catch up with all the news feeds. My mention of "SPAWN" in that post was not a valid answer in this context.]

No, the IDL_IDLBridge objects can only *directly* access process data on the same node so by itself it's not a solution.

You would need something more like Remote Procedure Calls (described in the IDL External Development Guide), which are quite low level.

If you're looking for higher level semantics, your bridge executions encapsulate discrete "tasks" with inputs and outputs, (and you have a budget), the ENVI Services Engine is more aligned with this goal. This is a separate product and though the name includes "ENVI", there's no requirement to use it in your processing.

But if your needs are somewhere in between, keep an eye out for an end-of-June IDL Data Point blog on the exelisvis.com website where I'll discuss the coming-in-8.5 officially documented support for server side SOCKETs. You would still need to build your own protocol for exchanging physical data between the processes, but it's generally a manageable goal for problems of middling complexity.

Jim P
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