Subject: Re: idl to fortran
Posted by oxfordenergyservices on Fri, 12 Nov 2010 09:55:35 GMT
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On Nov 10, 9:53 pm, Paulo Penteado <pp.pente...@gmail.com> wrote:
> On Nov 10, 7:51 pm, Paulo Penteado <pp.pente...@gmail.com> wrote:
>
>> On Nov 10, 6:21 pm, a <oxfordenergyservi...@googlemail.com> wrote:
>
>>> I've been writing some code in IDL. I've pushed it as fast as it can
>>> go but we may need it quicker. That means possibly many-cpu parallel
>>> code. That unfortunately means fortran or C with an OpenMP parallel
>>> compiling and running.
>
>> It may not hurt to point out that IDL can use multiple processors
>> automatically (the routines that use the thread pool).
>
> Also, if you do end up rewriting things, it will probably not be
> necessary to rewrite everything. You could do it just for the
> bottlenecks, and leave the rest in IDL, accessing those reimplemented
> parts through DLMs or call_external.

Thanks all the above for your comments, I'll look into them. In the mean time, I was considering your suggestion Paulo of the bottlenecks. I have not a huge a amount of IDL code but the bottleneck is possibly 200 lines looped 5 milliontimes. It would be pretty easy to code this in f90. I read somewhere else I could spawn the fortran code which does this bottleneck but how would I communicate between idl and fortran? I could write the data out from idl, read in fortran, write back out in fortran and read back in in idl. The data would be in RAM I assume so wouldn't be too slow but the data is rather large (a few 20 by 5 million arrays). Thanks for your suggestions

Russ