
Subject: Re: idl to fortran

Posted by [oxfordenergyservices](#) on Fri, 12 Nov 2010 10:53:04 GMT

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On Nov 12, 9:55 am, geoff <oxfordenergyservi...@googlemail.com> wrote:

> On Nov 10, 9:53 pm, Paulo Penteado <pp.pente...@gmail.com> wrote:

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>> On Nov 10, 7:51 pm, Paulo Penteado <pp.pente...@gmail.com> wrote:

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>>> On Nov 10, 6:21 pm, a <oxfordenergyservi...@googlemail.com> wrote:

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>>>> 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 amount of IDL code but the

> bottleneck is possibly 200 lines looped 5 million times. 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

sorry Paulo, bit keen on the keyboard there! I'll look into DLMS and
call_extrenal

Russ
