
Subject: Re: IDL to C translator

Posted by [David Fenyes](#) on Wed, 08 Apr 1998 07:00:00 GMT

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Liam Gumley <Liam.Gumley@ssec.wisc.edu> writes:

Liam Gumley <Liam.Gumley@ssec.wisc.edu> writes:

>

> Axel Schweiger wrote:

>> Here are some very good reasons why an IDL -> C/Fortran translator (or a IDL
>> compiler) would make sense:

>> 1) IDL can be extremely slow if your code/algorithm requires you to loop over
>> an array. I don't think a lot of people are coding applications

>> where speed is an issue in IDL.

snip

> "Let's convert all our FORTRAN to C, because C is more portable", or

"Let's auto-convert FORTRAN to C, because most people have a C compiler."

Done. f2c

> "Let's convert all our C to C++, because it's object oriented", or

If this is done automatically, it is to fit existing C code into a C++
framework quickly.

> "Let's convert all our C++ to Java, because it's platform independent".

Compiling C->jvm is reasonable, particularly if it's debugged and to
be linked with new JAVA code.

I think the original request is reasonable. In fact, IDL to C
directly would be something of a pain, but via LISP it would not be as
hard as you'd think. IDL4 is a lot like a crippled lisp with FORTRAN
syntax. For IDL4, and IDL->LISP compiler would be quite feasible, if
appropriate widget and math libraries were added. Lisp is easily
compiled to C or assembly.

For IDL5 this is more difficult, because of the pointers. If those
are avoided, IDL->Lisp may still be feasible.

>

> I feel much better now.

>

> Cheers,

> Liam.

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David Fenyes

dave@msrad23011.med.uth.tmc.edu

University of Texas Medical School

Dept. of Radiology
