
Subject: Re: FORTRAN to IDL translation
Posted by [Liam Gumley](#) on Sat, 20 Nov 1999 08:00:00 GMT
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Henrik E. Nilsen <Henrik.Nilsen@fi.uib.no> wrote in message
news:3836BDF2.9C6F44E2@fi.uib.no...

> I have a small Fortran program (1000 lines) that I would like to translate
> to IDL. I've looked around the net for a translation utility, but can't
> find one. Does anyone know if there is such a thing? I'm now looking at
> making a simple utility like this myself. My aim is to make an IDL
> routine that can translate Fortran code line-by-line. I expect to
> translate about 80-90% of the code this way, leaving the rest for manual
> translation. Finally, the code must be restructured some (maually)to take
> advantage of IDL functions (Array manipulation, objects, etc.) Any Ideas?

There is no utility to transform FORTRAN to IDL. Good luck on constructing
one yourself. Just make sure you don't translate all those FORTRAN loops to
IDL loops :-)

Cheers,
Liam.
<http://cimss.ssec.wisc.edu/~gumley>

Subject: Re: FORTRAN to IDL translation
Posted by [Michael Asten](#) on Tue, 23 Nov 1999 08:00:00 GMT
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I was faced with a similar task when I needed a procedure to compute modified
bessel functions of complex argument - idl routines happily accept a complex
argument, but only operate on the real part (*#!). In the end I did a
line-for-line translation from fortran and found it quite straightforward, since
idl allows horrible programming features common in F77 such as goto statements
and line-labels. Without optimising loops, I found that the speed comparison on
the maths was
fortran : idl = 3 : 11 seconds.

The big challenge is likely to be the rewrite to take advantage of array
processing - good luck.

Regards,
Michael Asten

Liam Gumley wrote:

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