
Subject: Re: IDL -> FORTRAN translator?

Posted by [Prof. Loren Meissner](#) on Fri, 25 Aug 1995 07:00:00 GMT

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sjt@xuna.sr.bham.ac.uk (James Tappin) wrote:

...

- > Whether it can be done at all (even by hand) depends on several factors,
- > but essentially if your IDL code contains either of:

- > 1) Arrays whose size is not known until some inputs have been given or
- > calculations made

- > 2) variables used as more than one type
- > then there is little chance of being able to generate a fortran code to
- > do the same thing without MAJOR restructuring -- unless F90 has things to
- > do this.
- >

F90 has allocatable arrays which SHOULD make #1 relatively easy.

F90 can handle "generic" variables ONLY AS PROCEDURE ARGUMENTS: you can write a "user-defined generic procedure" in a module with a separate specific procedure for each argument type: see "Programmer's Guide to F90", second edition, p. 241 -- OR -- my "Fortran 90", p. 438 -- OR -- Ellis etal "F90 Programming", p.370.

- Loren Meissner
