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Subject: Re: How does IDL do ...  
Posted by [David Foster](#) on Tue, 13 May 1997 07:00:00 GMT  
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John E. Davis wrote:

>  
> On Fri, 02 May 1997 09:16:48 -0500, Liam Gumley <liam.gumley@ssec.wisc.edu>  
> wrote:  
>  
> While I agree that IDL reduces development time, it does not always  
> result in code that is as fast as FORTRAN. It is only (nearly) as  
> fast as FORTRAN if you are able to vectorize all operations. However,  
> if some function does not vectorize and it is called many times, the  
> resulting code can run many times slower than FORTRAN. For example,  
> an early version of the MARX AXAF simulator was written in IDL.  
> Unfortunately, it was not possible to vectorize one or two critical  
> pieces of the code (using the IDL 3.0 intrinsics; perhaps 5.0 provides  
> the necessary intrinsic functions to permit complete vectorization).  
> When the simulator was converted to C, it became about 20 times  
> faster.  
>  
> Nevertheless, IDL (as well as freely available software such as  
> SciLab, RLab, and Octave) seem to be good prototyping tools and allow  
> one to get useful work done without too much programming effort.  
>  
> --John

Keep in mind that in IDL it is always possible to code "critical pieces of code" in C or Fortran and then link the code as a sharable object. Granted, a function call is never as fast as in-line code, but the overhead isn't much to speak of.

Dave  
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