
Subject: Re: need help reading binary FORTRAN data
Posted by [Paul Van Delst\[1\]](#) on Wed, 21 Oct 2009 15:44:14 GMT
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That syntax, INTEGER*4, REAL*8, etc is, as you say, not in any Fortran standard but are ubiquitous extensions. But, where those Fortran extensions are allowed, the "4" and "8" above are indeed the length (read: number of bytes) and not the kind type. Kind types didn't exist at all in Fortran until Fortran90, and the INTEGER*4, etc extensions were available before that (and still are for those norty folks who continue to use them.... :o)

cheers,

paulv

pp wrote:

- > Note that things like INT*4 do not universally tell how many bytes are
- > used in that integer. The Fortran standard does not specify which kind
- > corresponds to which size of variable, it is up to the implementation
- > to define which kind number corresponds to which variable size. It is
- > common that INT*4 means a 4-byte integer, but it does not have to be
- > so. That is the reason why Fortran has functions like
- > selected_int_kind, to pick the proper kind number.