
Subject: data types

Posted by [graham_wilson](#) on Thu, 01 Feb 2001 09:04:14 GMT

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I'm trying to compile a short listing of data types for converting between F77, C, and IDL.

Below is a listing of what I have but note that I have not filled in all of the IDL column. Any and all comments/help is appreciated and my appologies to those of you who don't use fixed fonts for reading mail.

F77 type (bytes)	C type	IDL type	Size

byte x	char x	byte	1
character x	char x	byte	1
character*n x	char x[n]	bytearr(n)	n
complex x	struct {float r, i;} x	?	8
complex*8 x	struct {float r, i;} x	?	8
double complex x	struct {float dr, di;} x	?	16
complex*16 x	struct {float dr, di;} x	?	16
complex*32 x	struct {float dr, di;} x	?	32
double precision x	double	double	8
real x	float x	float	4
real*4 x	float x	float	4
real*8 x	double x	double	8
real*16 x	long double x	?	16
integer x	int x	long	4
integer*2 x	short x	fix	2
integer*4 x	int x	long	4
integer*8 x	long long int x	?	8
logical x	int x	long	4
logical*1	char x	byte	1
logical*2	short x	fix	2
logical*4	int x	long	4
logical*8	long long int x	?	8

NB: I'm assuming that there are no fancy compiling options given to change the alignment or the default sizes.

Such a list would be useful as an appendix in one of those IDL books we keep hearing about (better still if it had the byte alignment for sparc/intel/powerpc/dec/mips...) :p

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