Named Predefined Datatypes		C/C++ types
[ticket107.]C type: `MPI_Datatype`	C++ type: `MPI::Datatype`	
[ticket107.]Fortran type: `INTEGER`		
[ticket63.]MPI_CHAR	MPI::CHAR	`char` (treated as printable chara
MPI_SHORT	MPI::SHORT	`signed short int`
MPI_INT	MPI::INT	`signed int`
MPI_LONG	MPI::LONG	`signed long`
MPI_LONG_LONG_INT	MPI::LONG_LONG_INT	`signed long long`
MPI_LONG_LONG	MPI::LONG_LONG	`long long` (synonym)
MPI_SIGNED_CHAR	MPI::SIGNED_CHAR	`signed char` (treated as integral value)
MPI_UNSIGNED_CHAR	MPI::UNSIGNED_CHAR	`unsigned char` (treated as integral value)
MPI_UNSIGNED_SHORT	MPI::UNSIGNED_SHORT	`unsigned short`
MPI_UNSIGNED	MPI::UNSIGNED	`unsigned int`
MPI_UNSIGNED_LONG	MPI::UNSIGNED_LONG	`unsigned long`
MPI_UNSIGNED_LONG_LONG	MPI::UNSIGNED_LONG_LONG	`unsigned long long`
MPI_FLOAT	MPI::FLOAT	`float`
MPI_DOUBLE	MPI::DOUBLE	`double`
MPI_LONG_DOUBLE	MPI::LONG_DOUBLE	`long double`
MPI_WCHAR	MPI::WCHAR	`wchar_t` (defined in `<stddef.h>`) (treated as printable chara
[ticket18.]MPI_C_BOOL	[ticket18.](use C datatype handle)	[ticket18.]`_Bool`
[ticket18.]MPI_INT8_T	[ticket18.](use C datatype handle)	[ticket18.]`int8_t`
[ticket18.]MPI_INT16_T	[ticket18.](use C datatype handle)	[ticket18.]`int16_t`
[ticket18.]MPI_INT32_T	[ticket18.](use C datatype handle)	[ticket18.]`int32_t`
[ticket18.]MPI_INT64_T	[ticket18.](use C datatype handle)	[ticket18.]`int64_t`
[ticket18.]MPI_UINT8_T	[ticket18.](use C datatype handle)	[ticket18.]`uint8_t`
[ticket18.]MPI_UINT16_T	[ticket18.](use C datatype handle)	[ticket18.]`uint16_t`
[ticket18.]MPI_UINT32_T	[ticket18.](use C datatype handle)	[ticket18.]`uint32_t`
[ticket18.]MPI_UINT64_T	[ticket18.](use C datatype handle)	[ticket18.]`uint64_t`
[ticket18.]MPI_AINT	[ticket18.](use C datatype handle)	[ticket18.]`MPI_Aint`
[ticket18.]MPI_OFFSET	[ticket18.](use C datatype handle)	[ticket18.]`MPI_Offset`
[ticket18.]MPI_C_COMPLEX	[ticket18.](use C datatype handle)	[ticket18.]`float _Complex`
[ticket18.]MPI_C_FLOAT_COMPLEX	[ticket18.](use C datatype handle)	[ticket18.]`float _Complex`
[ticket18.]MPI_C_DOUBLE_COMPLEX	[ticket18.](use C datatype handle)	[ticket18.]`double _Comple`
[ticket18.]MPI_C_LONG_DOUBLE_COMPLEX	[ticket18.](use C datatype handle)	[ticket18.]`long double _C`
MPI_BYTE	MPI::BYTE	(any C/C++ type)
MPI_PACKED	MPI::PACKED	(any C/C++ type)

ticket4.

C and C++ (no Fortran) Named Predefined Datatypes		Fortran types
MPI-2.1 Review 33.d'		
MPI_Fint	MPI::Fint	INTEGER
MPI-2.1 Review 33.d'		

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Named Predefined Datatypes		Fortran types
[ticket107.]C type: MPI_Datatype	C++ type: MPI::Datatype	
[ticket107.]Fortran type: INTEGER		
MPI_INTEGER	MPI::INTEGER	INTEGER
MPI_REAL	MPI::REAL	REAL
MPI_DOUBLE_PRECISION	MPI::DOUBLE_PRECISION	DOUBLE PRECISION
MPI_COMPLEX	MPI::F_COMPLEX	COMPLEX
MPI_LOGICAL	MPI::LOGICAL	LOGICAL
MPI_CHARACTER	MPI::CHARACTER	CHARACTER(1)
[ticket18.]MPI_AINT	[ticket18.](use C datatype handle)	[ticket18.]INTEGER (KIND=MPI_ADDRE
[ticket18.]MPI_OFFSET	[ticket18.](use C datatype handle)	[ticket18.]INTEGER (KIND=MPI_OFFSE
MPI_BYTE	MPI::BYTE	(any Fortran type)
MPI_PACKED	MPI::PACKED	(any Fortran type)

C++-Only Named Predefined Datatypes	C++ types
C++ type: MPI::Datatype	
MPI::BOOL	bool
MPI::COMPLEX	Complex<float>
MPI::DOUBLE_COMPLEX	Complex<double>
MPI::LONG_DOUBLE_COMPLEX	Complex<long double>

Optional datatypes (Fortran)		Fortran types
[ticket107.]C type: MPI_Datatype	C++ type: MPI::Datatype	
[ticket107.]Fortran type: INTEGER		
MPI_DOUBLE_COMPLEX	[ticket40.]MPI::F_DOUBLE_COMPLEX	DOUBLE COMPLEX
MPI_INTEGER1	MPI::INTEGER1	INTEGER*1
MPI_INTEGER2	MPI::INTEGER2	INTEGER*8
MPI_INTEGER4	MPI::INTEGER4	INTEGER*4
MPI_INTEGER8	MPI::INTEGER8	INTEGER*8
[ticket57.]MPI_INTEGER16	[ticket57.](use C datatype handle)	[ticket57.]INTEGER*16
MPI_REAL2	MPI::REAL2	REAL*2
MPI_REAL4	MPI::REAL4	REAL*4
MPI_REAL8	MPI::REAL8	REAL*8
[ticket57.]MPI_REAL16	[ticket57.](use C datatype handle)	[ticket57.]REAL*16
[ticket57.]MPI_COMPLEX4	[ticket57.](use C datatype handle)	[ticket57.]COMPLEX*4
[ticket57.]MPI_COMPLEX8	[ticket57.](use C datatype handle)	[ticket57.]COMPLEX*8
[ticket57.]MPI_COMPLEX16	[ticket57.](use C datatype handle)	[ticket57.]COMPLEX*16
[ticket57.]MPI_COMPLEX32	[ticket57.](use C datatype handle)	[ticket57.]COMPLEX*32