

Named Predefined Datatypes		C/C++ types
C++ type: MPI::Datatype		
MPI_CHAR	MPI::CHAR	char (treated as printable character)
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>)
MPI_BYTE	MPI::BYTE	(any C/C++ type)
MPI_PACKED	MPI::PACKED	(any C/C++ type)

Named Predefined Datatypes		Fortran types
C++ type: MPI::Datatype		
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)
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>