

Named Predefined Datatypes		C/C++ types
C type: MPI_Datatype	C++ type: MPI::Datatype	
Fortran type: INTEGER		
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>)
		(treated as printable character)
MPI_C_BOOL	(use C datatype handle)	_Bool
MPI_INT8_T	(use C datatype handle)	int8_t
MPI_INT16_T	(use C datatype handle)	int16_t
MPI_INT32_T	(use C datatype handle)	int32_t
MPI_INT64_T	(use C datatype handle)	int64_t
MPI_UINT8_T	(use C datatype handle)	uint8_t
MPI_UINT16_T	(use C datatype handle)	uint16_t
MPI_UINT32_T	(use C datatype handle)	uint32_t
MPI_UINT64_T	(use C datatype handle)	uint64_t
MPI_AINT	(use C datatype handle)	MPI_Aint
MPI_OFFSET	(use C datatype handle)	MPI_Offset
MPI_C_COMPLEX	(use C datatype handle)	float _Complex
MPI_C_FLOAT_COMPLEX	(use C datatype handle)	float _Complex
MPI_C_DOUBLE_COMPLEX	(use C datatype handle)	double _Complex
MPI_C_LONG_DOUBLE_COMPLEX	(use C datatype handle)	long double _Complex
MPI_BYTE	MPI::BYTE	(any C/C++ type)
MPI_PACKED	MPI::PACKED	(any C/C++ type)