PHP Mapping for Built-In Types

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Mapping of Slice Built-In Types to PHP Types

PHP has a limited set of primitive types: `boolean`, `integer`, `double`, and `string`. The Slice built-in types are mapped to PHP types as shown in the table below:

Slice	Ruby
`bool`	`true` or `false`
`byte`	`integer`
`short`	`integer`
`int`	`integer`
`long`	`integer`
`float`	`double`
`double`	`double`
`string`	`string`

PHP's `integer` type may not accommodate the range of values supported by Slice's `long` type, therefore `long` values that are outside this range are mapped as strings. Scripts must be prepared to receive an integer or string from any operation that returns a `long` value.

String Mapping in PHP

String values returned as the result of a Slice operation (including return values, out parameters, and data members) contain UTF-8 encoded strings unless the program has installed a string converter, in which case string values use the converter's native encoding instead.

As string input values for a remote Slice operation, Ice accepts `null` in addition to `string` objects; each occurrence of `null` is marshaled as an empty string. Ice assumes that all `string` objects contain valid UTF-8 encoded strings unless the program has installed a string converter, in which case Ice assumes that `string` objects use the native encoding expected by the converter.

See Also

- Basic Types
- PHP Mapping for Identifiers
- PHP Mapping for Modules
- PHP Mapping for Enumerations
- PHP Mapping for Structures
- PHP Mapping for Sequences
- PHP Mapping for Dictionaries
- PHP Mapping for Constants
- PHP Mapping for Exceptions
- C++ Strings and Character Encoding