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PHP Core

Implicitly nullable parameter

A parameter's type is implicitly widened to accept `null` if the default value for it is ENTITY.

The following code:

```
<?php
function foo(T1 $a = null) {}
```

should be converted to:

```
<?php
function foo(T1|null $a = null) {}
```

or

```
<?php
function foo(?T1 $a = null) {}
```

However, if such a parameter declaration is followed by a mandatory parameter:

```
<?php
function foo(T1 $a, T2 $b = null, T3 $c) {}
```

It must be converted to:

```
<?php
function foo(T1 $a, T2|null $b, T3 $c) {}
```

or

```
<?php
function foo(T1 $a, ?T2 $b, T3 $c) {}
```

as optional parameter before required ones are deprecated.

Raising zero to the power of negative number

Raising a number to the power of a negative number is equivalent to taking the reciprocal of the number raised to the positive opposite of the power. That is, `10-2` is the same as `1 / 102`. Therefore raising `0` to the power of a negative number corresponds to dividing by `0`, i.e. `0-2` is the same as `1 / 02`, or `1 / 0`. Thus, this behavior has been deprecated.

This affects the exponentiation operator `**` and the `pow` function.

If the IEEE 754 semantics are desired one should use the new `fpow` function.

Using underscore `_` as class name

Naming a class `_` is now deprecated:

```
<?php
class _ {}
```

> Classes whose names start with an underscore are *not* deprecated:
>
> ```
> <?php
> class _MyClass {}
> ```

Using `trigger_error` with `E_USER_ERROR`

Calling `trigger_error` with `error_level` being equal to `E_USER_ERROR` is now deprecated.

Such usages should be replaced by either throwing an exception, or calling `exit`, whichever is more appropriate.

The `E_STRICT` constant

Because the `E_STRICT` error level was removed, this constant is now deprecated.

cURL

The `CURLOPT_BINARYTRANSFER` constant is now deprecated.

Date

The `DatePeriod::__construct(string $isostr, int $options = 0)` signature has been deprecated. Use DatePeriod::createFromISO8601String instead.

The `SUNFUNCS_RET_TIMESTAMP`, `SUNFUNCS_RET_STRING`, and `SUNFUNCS_RET_DOUBLE` constants are now deprecated. This follows from the deprecation of the `date_sunset` and `date_sunrise` functions in PHP 8.1.0.

DBA

Passing ENTITY or ENTITY to `dba_key_split` is now deprecated. It would always return ENTITY in those cases.

DOM

The `DOM_PHP_ERR` constant is now deprecated.

The following properties have been formally deprecated: DOMDocument::$actualEncoding, DOMDocument::$config, DOMEntity::$actualEncoding, DOMEntity::$encoding, DOMEntity::$version

Hash

Passing invalid options to hash functions is now deprecated.

Intl

Calling `intlcal_set` or IntlCalendar::set with more than two arguments is deprecated. Use either IntlCalendar::setDate or IntlCalendar::setDateTime instead.

Calling `intlgregcal_create_instance` or IntlGregorianCalendar::__construct with more than two arguments is deprecated. Use either IntlGregorianCalendar::createFromDate or IntlGregorianCalendar::createFromDateTime instead.

LDAP

Calling `ldap_connect` with more than two arguments is deprecated. Use `ldap_connect_wallet` instead.

Calling `ldap_exop` with more than four arguments is deprecated. Use `ldap_exop_sync` instead.

MySQLi

The `mysqli_ping` function and mysqli::ping method are now deprecated as the reconnect feature was removed in PHP 8.2.0.

The `mysqli_kill` function and mysqli::kill method are now deprecated. If this functionality is needed a SQL `KILL` command can be used instead.

The `mysqli_refresh` function and mysqli::refresh method are now deprecated. If this functionality is needed a SQL `FLUSH` command can be used instead. All `MYSQLI_REFRESH_*` constants have been deprecated as well.

Passing the `mode` parameter to `mysqli_store_result` explicitly has been deprecated. As the `MYSQLI_STORE_RESULT_COPY_DATA` constant was only used in conjunction with this function it has also been deprecated.

PDO_PGSQL

Using escaped question marks (`??`) inside dollar-quoted strings is deprecated. Because PDO_PGSQL now has its own SQL parser with dollar-quoted strings support, it is no longer necessary to escape question marks inside them.

PGSQL

The 2 arguments signature of `pg_fetch_result`, `pg_field_prtlen`, and `pg_field_is_null` is now deprecated. Use the 3 arguments signature with `row` set to ENTITY instead.

Random

`lcg_value` is now deprecated, as the function is broken in multiple ways. Use Random\Randomizer::getFloat instead.

Reflection

Calling ReflectionMethod::__construct with one argument is deprecated. Use ReflectionMethod::createFromMethodName instead.

Session

Calling `session_set_save_handler` with more than two arguments is deprecated. Use the two arguments signature instead.

Changing the value of the `session.sid_length` and `session.sid_bits_per_character` INI settings is deprecated. Update the session storage backend to accept 32 character hexadecimal session IDs and stop changing these two INI settings instead.

Changing the value of the `session.use_only_cookies`, `session.use_trans_sid`, `session.trans_sid_tags`, `session.trans_sid_hosts`, and `session.referer_check` INI settings is deprecated. The `SID` constant is also deprecated.

SOAP

Passing an `int` to SoapServer::addFunction is now deprecated. If all PHP functions need to be provided flatten the array returned by `get_defined_functions`.

The `SOAP_FUNCTIONS_ALL` constant is now deprecated.

SPL

The SplFixedArray::__wakeup method is now deprecated, as it implements SplFixedArray::__serialize and SplFixedArray::__unserialize which need to be overwritten instead.

Using the default value for the `escape` parameter for the SplFileObject::setCsvControl, SplFileObject::fputcsv, and SplFileObject::fgetcsv is now deprecated. It must be passed explicitly either positionally or via named arguments. This does not apply to SplFileObject::fputcsv and SplFileObject::fgetcsv if SplFileObject::setCsvControl was used to set a new default value.

Standard

Calling `stream_context_set_option` with two arguments is deprecated. Use `stream_context_set_options` instead.

Unserializing strings using the uppercase `S` tag with `unserialize` is deprecated.

Using the default value for the `escape` parameter for the `fputcsv`, `fgetcsv`, and `str_getcsv` is now deprecated. It must be passed explicitly either positionally or via named arguments.

XML

The `xml_set_object` function has been deprecated.

Passing non-`callable` strings to the `xml_set_*` functions is now deprecated.

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