



NAME

`munge_enum_is_valid`, `munge_enum_int_to_str`, `munge_enum_str_to_int` – MUNGE enumeration functions

SYNOPSIS

```
#include <munge.h>
```

```
int munge_enum_is_valid (munge_enum_t type, int val);
```

```
const char * munge_enum_int_to_str (munge_enum_t type, int val);
```

```
int munge_enum_str_to_int (munge_enum_t type, const char *str);
```

```
cc 'pkg-config --cflags --libs munge' -o foo foo.c
```

DESCRIPTION

The `munge_enum_is_valid()` function checks if the given value *val* is a valid MUNGE enumeration of the specified type *type* in the software configuration as currently compiled. Some enumerations correspond to options that can only be enabled at compile-time.

The `munge_enum_int_to_str()` function converts the MUNGE enumeration *val* of the specified type *type* into a text string.

The `munge_enum_str_to_int()` function converts the NUL-terminated case-insensitive string *str* into the corresponding MUNGE enumeration of the specified type *type*.

RETURN VALUE

The `munge_enum_is_valid()` function returns non-zero if the given value *val* is a valid enumeration.

The `munge_enum_int_to_str()` function returns a NUL-terminated constant text string, or NULL on error; this string should not be freed or modified by the caller.

The `munge_enum_str_to_int()` function returns a MUNGE enumeration on success (i.e., ≥ 0), or -1 on error.

ENUM TYPES

The following enumeration types can be specified.

MUNGE_ENUM_CIPHER

Specify enumerations for the available cipher types.

MUNGE_ENUM_MAC

Specify enumerations for the available MAC types.

MUNGE_ENUM_ZIP

Specify enumerations for the available compression types.

ERRORS

Refer to `munge(3)` for a complete list of errors.

EXAMPLE

The following example program illustrates how a list of available cipher types can be queried.

```
#include <stdio.h>          /* for printf() */
#include <stdlib.h>         /* for exit() */
#include <munge.h>

int
main (int argc, char *argv[])
{
    int    i;
```



```
const char *p;
mungenum_t t = MUNGE_ENUM_CIPHER;

for (i = 0; (p = munge_enum_int_to_str (t, i)) != NULL; i++) {
    if (mungenum_is_valid (t, i)) {
        printf ("%2d = %s\n", i, p);
    }
}
exit (0);
}
```

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SEE ALSO

munge(1), **remunge(1)**, **unmunge(1)**, **munge(3)**, **munge_ctx(3)**, **munge(7)**, **munged(8)**.

<https://dun.github.io/munge/>

