NAME

ne_malloc, ne_calloc, ne_realloc, ne_strdup, ne_strndup, ne_oom_callback - memory allocation wrappers

SYNOPSIS

#include <ne_alloc.h>

void *ne_malloc(size_t *size***);**

void *ne_calloc(size_t *size***);**

void *ne_realloc(void ***size*, size_t** *len***);**

char *ne_strdup(const char ***s*);**

char *ne_strndup(const char ***s*, size_t** *size***);**

void ne_oom_callback(void (*callback***)(void));**

DESCRIPTION

The functions **ne_malloc**, **ne_calloc**, **ne_realloc**, **ne_strdup** and **ne_strdnup** provide wrappers for the equivalent functions in the standard C library. The wrappers provide the extra guarantee that if the C library equivalent returns NULL when no memory is available, an optional callback will be called, and the library will then call **abort**().

ne_oom_callback registers a callback which will be invoked if an out of memory error is detected.

NOTES

If the operating system uses optimistic memory allocation, the C library memory allocation routines will not return NULL, so it is not possible to gracefully handle memory allocation failures.

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