

NAME

NCONF_new_ex, NCONF_new, NCONF_free, NCONF_default, NCONF_load, NCONF_get0_libctx, NCONF_get_section, NCONF_get_section_names - functionality to Load and parse configuration files manually

SYNOPSIS

```
#include <openssl/conf.h>
```

```
typedef struct {
    char *section;
    char *name;
    char *value;
} CONF_VALUE;
```

```
CONF *NCONF_new_ex(OSSL_LIB_CTX *libctx, CONF_METHOD *meth);
CONF *NCONF_new(CONF_METHOD *meth);
void NCONF_free(CONF *conf);
CONF_METHOD *NCONF_default(void);
int NCONF_load(CONF *conf, const char *file, long *eline);
OSSL_LIB_CTX *NCONF_get0_libctx(const CONF *conf);
```

```
STACK_OF(CONF_VALUE) *NCONF_get_section(const CONF *conf, const char *name);
STACK_OF(OPENSSSL_CSTRING) *NCONF_get_section_names(const CONF *conf);
```

DESCRIPTION

NCONF_new_ex() creates a new CONF object in heap memory and assigns to it a context *libctx* that can be used during loading. If the method table *meth* is set to NULL then the default value of **NCONF_default()** is used.

NCONF_new() is similar to **NCONF_new_ex()** but sets the *libctx* to NULL.

NCONF_free() frees the data associated with *conf* and then frees the *conf* object.

NCONF_load() parses the file named *filename* and adds the values found to *conf*. If an error occurs *file* and *eline* list the file and line that the load failed on if they are not NULL.

NCONF_default() gets the default method table for processing a configuration file.

NCONF_get0_libctx() gets the library context associated with the *conf* parameter.

NCONF_get_section_names() gets the names of the sections associated with the *conf* as **STACK_OF(OPENSSSL_CSTRING)** strings. The individual strings are associated with the *conf* and will be invalid after *conf* is freed. The returned stack must be freed with **sk_OPENSSSL_CSTRING_free()**.

NCONF_get_section() gets the config values associated with the *conf* from the config section *name* as **STACK_OF(CONF_VALUE)** structures. The returned stack is associated with the *conf* and will be invalid after *conf* is freed. It must not be freed by the caller.

RETURN VALUES

NCONF_load() returns 1 on success or 0 on error.

NCONF_new_ex() and **NCONF_new()** return a newly created *CONF* object or NULL if an error occurs.

SEE ALSO

CONF_modules_load_file(3),

HISTORY

NCONF_new_ex(), **NCONF_get0_libctx()**, and **NCONF_get_section_names()** were added in OpenSSL 3.0.

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