

**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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