

**NAME**

**dnvlist\_get**, **dnvlist\_take** - API for getting name/value pairs. Nonexistent pairs do not raise an error.

**LIBRARY**

Name/value pairs library (libnv, -lnv)

**SYNOPSIS**

```
#include <sys/dnv.h>
```

*bool*

```
dnvlist_get_bool(const nvl_t *nvl, const char *name, bool defval);
```

*uint64\_t*

```
dnvlist_get_number(const nvl_t *nvl, const char *name, uint64_t defval);
```

*char \**

```
dnvlist_get_string(const nvl_t *nvl, const char *name, const char *defval);
```

*nvl\_t \**

```
dnvlist_get_nvlist(const nvl_t *nvl, const char *name, nvl_t *defval);
```

*int*

```
dnvlist_get_descriptor(const nvl_t *nvl, const char *name, int defval);
```

*void \**

```
dnvlist_get_binary(const nvl_t *nvl, const char *name, size_t *sizep, void *defval, size_t defsize);
```

*bool*

```
dnvlist_take_bool(const nvl_t *nvl, const char *name, bool defval);
```

*uint64\_t*

```
dnvlist_take_number(const nvl_t *nvl, const char *name, uint64_t defval);
```

*char \**

```
dnvlist_take_string(const nvl_t *nvl, const char *name, const char *defval);
```

*nvl\_t \**

```
dnvlist_take_nvlist(const nvl_t *nvl, const char *name, nvl_t *defval);
```

*int*

```
dnvlist_take_descriptor(const nvlst_t *nvl, const char *name, int defval);
```

```
void *
```

```
dnvlist_take_binary(const nvlst_t *nvl, const char *name, size_t *sizep, void *defval, size_t defsize);
```

## DESCRIPTION

The **libnv** library permits easy management of name/value pairs and can send and receive them over sockets. For more information, also see [nv\(9\)](#).

The **dnvlist\_get** family of functions returns the value associated with the specified name. If an element of the specified name does not exist, the function returns the value provided in *defval*. Returned strings, nvlsts, descriptors, binaries, or arrays must not be modified by the user. They still belong to the nvlst. If the nvlst is in an error state, attempts to use any of these functions will cause the program to abort.

The **dnvlist\_take** family of functions returns the value associated with the specified name and removes the element from the nvlst. If an element of the supplied name does not exist, the value provided in **defval** is returned. When the value is a string, binary, or array value, the caller is responsible for freeing returned memory with [free\(3\)](#). When the value is an nvlst, the caller is responsible for destroying the returned nvlst with [nvlst\\_destroy\(\)](#). When the value is a descriptor, the caller is responsible for closing the returned descriptor with [close\(2\)](#).

## SEE ALSO

[close\(2\)](#), [free\(3\)](#), [nv\(9\)](#)

## HISTORY

The **dnv** API appeared in FreeBSD 11.0.

## AUTHORS

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