

NAME

ldap_get_values, ldap_get_values_len, ldap_count_values - LDAP attribute value handling routines

LIBRARY

OpenLDAP LDAP (libldap, -lldap)

SYNOPSIS

```
#include <ldap.h>
```

```
char **ldap_get_values(ld, entry, attr)
```

```
LDAP *ld;
```

```
LDAPMessage *entry;
```

```
char *attr;
```

```
struct berval **ldap_get_values_len(ld, entry, attr)
```

```
LDAP *ld;
```

```
LDAPMessage *entry;
```

```
char *attr;
```

```
int ldap_count_values(vals)
```

```
char **vals;
```

```
int ldap_count_values_len(vals)
```

```
struct berval **vals;
```

```
void ldap_value_free(vals)
```

```
char **vals;
```

```
void ldap_value_free_len(vals)
```

```
struct berval **vals;
```

DESCRIPTION

These routines are used to retrieve and manipulate attribute values from an LDAP entry as returned by **ldap_first_entry(3)** or **ldap_next_entry(3)**. **ldap_get_values()** takes the *entry* and the attribute *attr* whose values are desired and returns a NULL-terminated array of the attribute's values. *attr* may be an attribute type as returned from **ldap_first_attribute(3)** or **ldap_next_attribute(3)**, or if the attribute type is known it can simply be given.

The number of values in the array can be counted by calling **ldap_count_values()**. The array of values

returned can be freed by calling **ldap_value_free()**.

If the attribute values are binary in nature, and thus not suitable to be returned as an array of char *'s, the **ldap_get_values_len()** routine can be used instead. It takes the same parameters as **ldap_get_values()**, but returns a NULL-terminated array of pointers to berval structures, each containing the length of and a pointer to a value.

The number of values in the array can be counted by calling **ldap_count_values_len()**. The array of values returned can be freed by calling **ldap_value_free_len()**.

ERRORS

If an error occurs in **ldap_get_values()** or **ldap_get_values_len()**, NULL is returned and the **ld_errno** field in the *ld* parameter is set to indicate the error. See **ldap_error(3)** for a description of possible error codes.

NOTES

These routines dynamically allocate memory which the caller must free using the supplied routines.

SEE ALSO

ldap(3), **ldap_first_entry(3)**, **ldap_first_attribute(3)**, **ldap_error(3)**

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<<http://www.openldap.org/>>. **OpenLDAP Software** is derived from the University of Michigan LDAP 3.3 Release.