

NAME

ldap_is_ldap_url, ldap_url_parse, ldap_free_urldesc - LDAP Uniform Resource Locator routines

LIBRARY

OpenLDAP LDAP (libldap, -lldap)

SYNOPSIS

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

```
int ldap_is_ldap_url( const char *url )
```

```
int ldap_url_parse( const char *url, LDAPURLDesc **ludpp )
```

```
typedef struct ldap_url_desc {
    char *   lud_scheme; /* URI scheme */
    char *   lud_host;   /* LDAP host to contact */
    int     lud_port;    /* port on host */
    char *   lud_dn;     /* base for search */
    char **  lud_attrs;  /* list of attributes */
    int     lud_scope;   /* a LDAP_SCOPE_... value */
    char *   lud_filter; /* LDAP search filter */
    char **  lud_exts;   /* LDAP extensions */
    int     lud_crit_exts; /* true if any extension is critical */
    /* may contain additional fields for internal use */
} LDAPURLDesc;
```

```
void ldap_free_urldesc( LDAPURLDesc *ludp );
```

DESCRIPTION

These routines support the use of LDAP URLs (Uniform Resource Locators) as detailed in RFC 4516. LDAP URLs look like this:

```
ldap://hostport/dn[?attrs[?scope[?filter[?exts]]]]
```

where:

hostport is a host name with an optional ":portnumber"

dn is the search base

attrs is a comma separated list of attributes to request

scope is one of these three strings:

base one sub (default=base)

filter is filter

exts are recognized set of LDAP and/or API extensions.

Example:

```
ldap://ldap.example.net/dc=example,dc=net?cn,sn?sub?(cn=*)
```

URLs that are wrapped in angle-brackets and/or preceded by "URL:" are also tolerated. Alternative LDAP schemes such as `ldaps://` and `ldapi://` may be parsed using the below routines as well.

ldap_is_ldap_url() returns a non-zero value if *url* looks like an LDAP URL (as opposed to some other kind of URL). It can be used as a quick check for an LDAP URL; the **ldap_url_parse()** routine should be used if a more thorough check is needed.

ldap_url_parse() breaks down an LDAP URL passed in *url* into its component pieces. If successful, zero is returned, an LDAP URL description is allocated, filled in, and *ludpp* is set to point to it. If an error occurs, a non-zero URL error code is returned.

ldap_free_urldesc() should be called to free an LDAP URL description that was obtained from a call to **ldap_url_parse()**.

SEE ALSO

ldap(3)

RFC 4516 <<http://www.rfc-editor.org/rfc/rfc4516.txt>>

ACKNOWLEDGEMENTS

OpenLDAP Software is developed and maintained by The OpenLDAP Project

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