

NAME

ldap_parse_result - Parsing results

LIBRARY

OpenLDAP LDAP (libldap, -lldap)

SYNOPSIS

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

```
int ldap_parse_result( LDAP *ld, LDAPMessage *result,  
    int *errcodep, char **matcheddn, char **errmsgp,  
    char ***referralsp, LDAPControl ***serverctrlsp,  
    int freeit )
```

```
int ldap_parse_sasl_bind_result( LDAP *ld, LDAPMessage *result,  
    struct berval **servercredp, int freeit )
```

```
int ldap_parse_extended_result( LDAP *ld, LDAPMessage *result,  
    char **retoidp, struct berval **retdatap, int freeit )
```

```
int ldap_parse_intermediate( LDAP *ld, LDAPMessage *result,  
    char **retoidp, struct berval **retdatap,  
    LDAPControl ***serverctrlsp, int freeit )
```

DESCRIPTION

These routines are used to extract information from a result message. They will operate on the first result message in a chain of search results (skipping past other message types). They take the *result* as returned by a call to **ldap_result(3)**, **ldap_search_s(3)** or **ldap_search_st(3)**. In addition to **ldap_parse_result()**, the routines **ldap_parse_sasl_bind_result()** and **ldap_parse_extended_result()** are used to get all the result information from SASL bind and extended operations. To extract information from intermediate responses, **ldap_parse_intermediate()** can be used.

The *errcodep* parameter will be filled in with the result code from the result message.

The server might supply a matched DN string in the message indicating how much of a name in a request was recognized. The *matcheddn* parameter will be filled in with this string if supplied, else it will be NULL. If a string is returned, it should be freed using **ldap_memfree(3)**.

The *errmsgp* parameter will be filled in with the error message field from the parsed message. This string should be freed using **ldap_memfree(3)**.

The *referralsp* parameter will be filled in with an allocated array of referral strings from the parsed message. This array should be freed using **ldap_memvfree(3)**. If no referrals were returned, **referralsp* is set to NULL.

The *serverctrlsp* parameter will be filled in with an allocated array of controls copied from the parsed message. The array should be freed using **ldap_controls_free(3)**. If no controls were returned, **serverctrlsp* is set to NULL.

The *freelit* parameter determines whether the parsed message is freed or not after the extraction. Any non-zero value will make it free the message. The **ldap_msgfree(3)** routine can also be used to free the message later.

For SASL bind results, the *servercredp* parameter will be filled in with an allocated berval structure containing the credentials from the server if present. The structure should be freed using **ber_bvfree(3)**.

For extended results and intermediate responses, the *retoidp* parameter will be filled in with the dotted-OID text representation of the name of the extended operation response. The string should be freed using **ldap_memfree(3)**. If no OID was returned, **retoidp* is set to NULL.

For extended results and intermediate responses, the *retdatap* parameter will be filled in with a pointer to a berval structure containing the data from the extended operation response. The structure should be freed using **ber_bvfree(3)**. If no data were returned, **retdatap* is set to NULL.

For all the above result parameters, NULL values can be used in calls in order to ignore certain fields.

ERRORS

Upon success LDAP_SUCCESS is returned. Otherwise the values of the result parameters are undefined.

SEE ALSO

ldap(3), **ldap_result(3)**, **ldap_search(3)**, **ldap_memfree(3)**, **ldap_memvfree(3)**, **ldap_get_values(3)**, **ldap_controls_free(3)**, **lber-types(3)**

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.