

**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)**

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