

NAME

ldns_pkt, ldns_pkt_section, ldns_pkt_type - request or answer packets types

SYNOPSIS

```
#include <stdint.h>
#include <stdbool.h>

#include <ldns/ldns.h>

ldns_pkt_section();

ldns_pkt_type();
```

DESCRIPTION

ldns_pkt
DNS packet

This structure contains a complete DNS packet (either a query or an answer)

It is the complete representation of what you actually send to a nameserver, and what it sends back (assuming you are the client here).

```
struct ldns_struct_pkt
{
```

Header section:

```
ldns_hdr *_header;
/* extra items needed in a packet */
```

an rdf (A or AAAA) with the IP address of the server it is from:

```
ldns_rdf *_answerfrom;
```

Timestamp of the time the packet was sent or created:

```
struct timeval timestamp;
```

The duration of the query this packet is an answer to:

```
uint32_t _querytime;
```

The size of the wire format of the packet in octets:

```
size_t _size;
```

Optional tsig rr:

```
ldns_rr *_tsig_rr;
```

EDNS0 available buffer size, see RFC2671:

```
uint16_t _edns_udp_size;
```

EDNS0 Extended rcodes:

```
uint8_t _edns_extended_rcode;
EDNS Version:
uint8_t _edns_version;
/* OPT pseudo-RR presence flag */
uint8_t _edns_present;
Reserved EDNS data bits:
uint16_t _edns_z;
Arbitrary EDNS rdata:
ldns_rdf *_edns_data;
Structured EDNS data:
ldns_edns_option_list *_edns_list;
Question section:
ldns_rr_list    *_question;
Answer section:
ldns_rr_list    *_answer;
Authority section:
ldns_rr_list    *_authority;
Additional section:
ldns_rr_list    *_additional;
};
typedef struct ldns_struct_pkt ldns_pkt;
```

ldns_pkt_section()

ldns_pkt_type()

AUTHOR

The ldns team at NLnet Labs.

REPORTING BUGS

Please report bugs to ldns-team@nlnetlabs.nl or in our bugzilla at <http://www.nlnetlabs.nl/bugs/index.html>

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SEE ALSO

ldns_pkt_new, ldns_pkt_free, ldns_pkt_print, ldns_pkt_query_new, ldns_pkt_query_new_frm_str, ldns_pkt_reply_type, ldns_pkt_id, ldns_pkt_qr, ldns_pkt_aa, ldns_pkt_tc, ldns_pkt_rd, ldns_pkt_cd, ldns_pkt_ra, ldns_pkt_ad, ldns_pkt_get_opcode, ldns_pkt_get_rcode, ldns_pkt_qdcount, ldns_pkt_ancount, ldns_pkt_nscount, ldns_pkt_arcount, ldns_pkt_answerfrom, ldns_pkt_querytime, ldns_pkt_size, ldns_pkt_tsig, ldns_pkt_question, ldns_pkt_answer, ldns_pkt_authority, ldns_pkt_additional, ldns_pkt_get_section_clone, ldns_pkt_rr_list_by_name, ldns_pkt_rr_list_by_type, ldns_pkt_rr_list_by_name_and_type, ldns_pkt_set_flags, ldns_pkt_set_id, ldns_pkt_set_qr, ldns_pkt_set_aa, ldns_pkt_set_tc, ldns_pkt_set_rd, ldns_pkt_set_cd, ldns_pkt_set_ra, ldns_pkt_set_ad, ldns_pkt_set_opcode, ldns_pkt_set_rcode, ldns_pkt_set_qdcount, ldns_pkt_set_ancount, ldns_pkt_set_nscount, ldns_pkt_set_arcount, ldns_pkt_set_answerfrom, ldns_pkt_set_querytime, ldns_pkt_set_size, ldns_pkt_set_section_count, ldns_pkt_set_tsig, ldns_pkt_edns, ldns_pkt_edns_udp_size, ldns_pkt_edns_extended_rcode, ldns_pkt_edns_version, ldns_pkt_edns_z, ldns_pkt_edns_unassigned, ldns_pkt_edns_data, ldns_pkt_set_edns_udp_size, ldns_pkt_set_edns_extended_rcode, ldns_pkt_set_edns_version, ldns_pkt_set_edns_z, ldns_pkt_set_edns_unassigned, ldns_pkt_set_edns_data. And **perldoc Net::DNS, RFC1034, RFC1035, RFC4033, RFC4034 and RFC4035.**

REMARKS

This manpage was automatically generated from the ldns source code.