

**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 rcode:**

```

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](mailto:ldns-team@nlnetlabs.nl) or in our bugzilla at <http://www.nlnetlabs.nl/bugs/index.html>

## COPYRIGHT

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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.