

**NAME**

`ldns_pkt2buffer_str`, `ldns_pkthead2buffer_str`, `ldns_rr2buffer_str`, `ldns_rr_list2buffer_str`,  
`ldns_rdf2buffer_str`, `ldns_key2buffer_str`, `ldns_pkt2buffer_wire`, `ldns_rr2buffer_wire`,  
`ldns_rdf2buffer_wire`, `ldns_rrsig2buffer_wire`, `ldns_rr_rdata2buffer_wire` - lower level conversions

**SYNOPSIS**

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

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

```
#include <ldns/ldns.h>
```

```
ldns_status ldns_pkt2buffer_str(ldns_buffer *output, const ldns_pkt *pkt);
```

```
ldns_status ldns_pkthead2buffer_str(ldns_buffer *output, const ldns_pkt *pkt);
```

```
ldns_status ldns_rr2buffer_str(ldns_buffer *output, const ldns_rr *rr);
```

```
ldns_status ldns_rr_list2buffer_str(ldns_buffer *output, const ldns_rr_list *list);
```

```
ldns_status ldns_rdf2buffer_str(ldns_buffer *output, const ldns_rdf *rdf);
```

```
ldns_status ldns_key2buffer_str(ldns_buffer *output, const ldns_key *k);
```

```
ldns_status ldns_pkt2buffer_wire(ldns_buffer *output, const ldns_pkt *pkt);
```

```
ldns_status ldns_rr2buffer_wire(ldns_buffer *output, const ldns_rr *rr, int section);
```

```
ldns_status ldns_rdf2buffer_wire(ldns_buffer *output, const ldns_rdf *rdf);
```

```
ldns_status ldns_rrsig2buffer_wire(ldns_buffer *output, const ldns_rr *sigrr);
```

```
ldns_status ldns_rr_rdata2buffer_wire(ldns_buffer *output, const ldns_rr *rr);
```

**DESCRIPTION**

`ldns_pkt2buffer_str()` Converts the data in the DNS packet to presentation format (as char \*) and appends it to the given buffer

**output:** pointer to the buffer to append the data to

**pkt:** the pointer to the packet to convert

Returns status

*ldns\_pktheader2buffer\_str()* Converts the header of a packet to presentation format and appends it to the output buffer

**output:** the buffer to append output to

**pkt:** the packet to convert the header of

Returns ldns\_status

*ldns\_rr2buffer\_str()* Converts the data in the resource record to presentation format (as char \*) and appends it to the given buffer. The presentation format of DNSKEY record is annotated with comments giving the id, type and size of the key.

**output:** pointer to the buffer to append the data to

**rr:** the pointer to the rr field to convert

Returns status

*ldns\_rr\_list2buffer\_str()* Converts a rr\_list to presentation format and appends it to the output buffer

**output:** the buffer to append output to

**list:** the ldns\_rr\_list to print

Returns ldns\_status

*ldns\_rdf2buffer\_str()* Converts the data in the rdata field to presentation format (as char \*) and appends it to the given buffer

**output:** pointer to the buffer to append the data to

**rdf:** the pointer to the rdata field containing the data

Returns status

*ldns\_key2buffer\_str()* Converts the data in the DNS packet to presentation format (as char \*) and appends it to the given buffer

**output:** pointer to the buffer to append the data to

**k:** the pointer to the private key to convert

Returns status

*ldns\_pkt2buffer\_wire()* Copies the packet data to the buffer in wire format

**\*output:** buffer to append the result to

**\*pkt:** packet to convert

Returns ldns\_status

*ldns\_rr2buffer\_wire()* Copies the rr data to the buffer in wire format

**\*output:** buffer to append the result to

**\*rr:** resource record to convert

**section:** the section in the packet this rr is supposed to be in (to determine whether to add rdata or not)

Returns `ldns_status`

*ldns\_rdf2buffer\_wire()* Copies the rdata data to the buffer in wire format

**\*output:** buffer to append the result to

**\*rdf:** rdata to convert

Returns `ldns_status`

*ldns\_rrsig2buffer\_wire()* Converts a rrsig to wireformat BUT EXCLUDE the rrsig rdata This is needed in DNSSEC verification

**output:** buffer to append the result to

**sigrr:** signature rr to operate on

Returns `ldns_status`

*ldns\_rr\_rdata2buffer\_wire()* Converts an rr's rdata to wireformat, while excluding the ownname and all the stuff before the rdata. This is needed in DNSSEC keytag calculation, the ds calculation from the key and maybe elsewhere.

**\*output:** buffer where to put the result

**\*rr:** rr to operate on

Returns `ldns_status`

## AUTHOR

The ldns team at NLnet Labs.

## REPORTING BUGS

Please report bugs to [dns-team@nlnetlabs.nl](mailto:dns-team@nlnetlabs.nl) or on GitHub at <https://github.com/NLnetLabs/ldns/issues>

## COPYRIGHT

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**SEE ALSO**

*ldns\_pkt2str*, *ldns\_rr2str*, *ldns\_rdf2str*, *ldns\_rr\_list2str*, *ldns\_key2str*. And **perldoc Net::DNS**, **RFC1034**, **RFC1035**, **RFC4033**, **RFC4034** and **RFC4035**.

**REMARKS**

This manpage was automatically generated from the ldns source code.