

**NAME**

`pcap_list_datalinks`, `pcap_free_datalinks` - get a list of link-layer header types supported by a capture device, and free that list

**SYNOPSIS**

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

```
int pcap_list_datalinks(pcap_t *p, int **dlt_buf);
```

```
void pcap_free_datalinks(int *dlt_list);
```

**DESCRIPTION**

`pcap_list_datalinks()` is used to get a list of the supported link-layer header types of the interface associated with the pcap descriptor. `pcap_list_datalinks()` allocates an array to hold the list and sets `*dlt_buf` to point to that array.

The caller is responsible for freeing the array with `pcap_free_datalinks()`, which frees the list of link-layer header types pointed to by `dlt_list`.

It must not be called on a pcap descriptor created by `pcap_create(3)` that has not yet been activated by `pcap_activate(3)`.

**RETURN VALUE**

`pcap_list_datalinks()` returns the number of link-layer header types in the array on success, **PCAP\_ERROR\_NOT\_ACTIVATED** if called on a capture handle that has been created but not activated, and **PCAP\_ERROR** on other errors. If **PCAP\_ERROR** is returned, `pcap_geterr(3)` or `pcap_perror(3)` may be called with `p` as an argument to fetch or display the error text.

**SEE ALSO**

`pcap(3)`, `pcap_datalink_val_to_name(3)`, `pcap-linktype(7)`