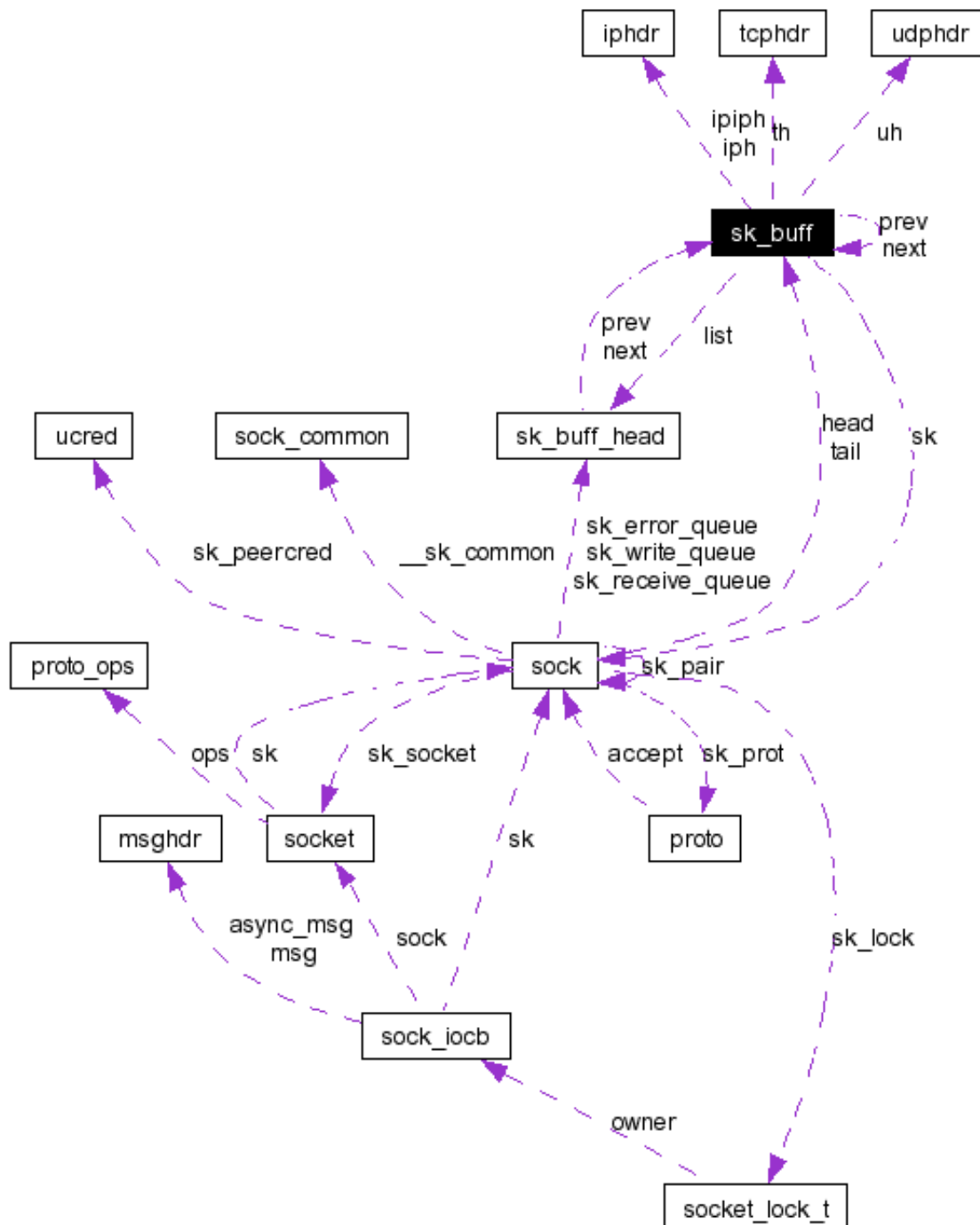


sk_buff Struct Reference

```
#include <skbuff.h>
```

Collaboration diagram for sk_buff:



legend

Data Fields

```
struct sk_buff* next
```

```

    struct sk_buff* prev
    struct sk_buff_head* list
        struct sock* sk
        struct timeval stamp
    struct net_device* dev
    struct net_device* real_dev
union {
    struct tcphdr* th
    struct udphdr* uh
    struct icmphdr* icmp_h
    struct igmp_h* igmp_h
    struct iphdr* ip_h
    struct ipv6hdr* ipv6_h
    unsigned char* raw
}
union {
    struct iphdr* ip_h
    struct ipv6hdr* ipv6_h
    struct arphdr* arp_h
    unsigned char* raw
}
union {
    struct ethhdr* ethernet
    unsigned char* raw
}
    struct dst_entry* dst
    struct sec_path* sp
        char cb [48]
        unsigned int len
        unsigned int data_len
        unsigned int mac_len
        unsigned int csum
        unsigned char local_df
        unsigned char cloned
        unsigned char pkt_type
        unsigned char ip_summed
        __u32 priority
        unsigned short protocol
        unsigned short security
        void (* destructor )(struct sk_buff *skb)
        unsigned int truesize
        atomic_t users
        unsigned char* head
        unsigned char * data
        unsigned char * tail
        unsigned char * end

```

Detailed Description

struct sk_buff - **socket** buffer @next: Next buffer in list @prev: Previous buffer in list @list: List we are on @sk: Socket we are owned by @stamp: Time we arrived @dev: Device we arrived on/are leaving by @real_dev: The real device we are using @h: Transport layer header @nh: Network layer header @mac: Link layer header @dst: FIXME: Describe this field @cb: Control buffer. Free for use

by every layer. Put private vars here @len: Length of actual data @data_len: Data length @mac_len: Length of link layer header @csum: Checksum @__unused: Dead field, may be reused @cloned: Head may be cloned (check refcnt to be sure) @pkt_type: Packet class @ip_summed: Driver fed us an IP checksum @priority: Packet queueing priority @users: User count - see {datagram,tcp}.c @protocol: Packet protocol from driver @security: Security level of packet @truesize: Buffer size @head: Head of buffer @data: Data head pointer @tail: Tail pointer @end: End pointer @destructor: Destruct function @nfmark: Can be used for communication between hooks @nfcache: Cache info @nfct: Associated connection, if any @nf_debug: Netfilter debugging @nf_bridge: Saved data about a bridged frame - see br_netfilter.c @private: Data which is private to the HIPPI implementation @tc_index: Traffic control index

Definition at line [191](#) of file [skbuff.h](#).

Field Documentation

struct arphdr* sk_buff::arph

Definition at line [215](#) of file [skbuff.h](#).

char sk_buff::cb

Definition at line [233](#) of file [skbuff.h](#).

unsigned char sk_buff::cloned

Definition at line [239](#) of file [skbuff.h](#).

unsigned int sk_buff::csum

Definition at line [235](#) of file [skbuff.h](#).

unsigned char * sk_buff::data

Definition at line [271](#) of file [skbuff.h](#).

unsigned int sk_buff::data_len

Definition at line [235](#) of file [skbuff.h](#).

void(* sk_buff::destructor)(struct sk_buff *skb)

struct net_device * sk_buff::dev

Definition at line [199](#) of file [skbuff.h](#).

struct dst_entry * sk_buff::dst

Definition at line [224](#) of file [skbuff.h](#).

unsigned char * sk_buff::end

Definition at line [271](#) of file [skbuff.h](#).

struct ethhdr* sk_buff::ethernet

Definition at line [220](#) of file [skbuff.h](#).

union { ... } sk_buff::h

unsigned char * sk_buff::head

Definition at line [271](#) of file [skbuff.h](#).

struct icmphdr* sk_buff::icmph

Definition at line [205](#) of file [skbuff.h](#).

struct igmp_hdr* sk_buff::igmp

Definition at line [206](#) of file [skbuff.h](#).

unsigned char sk_buff::ip_summed

Definition at line [239](#) of file [skbuff.h](#).

struct iphdr* sk_buff::iph

Definition at line [213](#) of file [skbuff.h](#).

struct iphdr* sk_buff::iph

Definition at line [207](#) of file [skbuff.h](#).

struct ipv6hdr* sk_buff::ipv6h

Definition at line [214](#) of file [skbuff.h](#).

unsigned int sk_buff::len

Definition at line [235](#) of file [skbuff.h](#).

struct sk_buff_head * sk_buff::list

Definition at line [196](#) of file [skbuff.h](#).

unsigned char sk_buff::local_df

Definition at line [239](#) of file [skbuff.h](#).

union { ... } sk_buff::mac

unsigned int sk_buff::mac_len

Definition at line [235](#) of file [skbuff.h](#).

struct sk_buff * sk_buff::next

Definition at line [193](#) of file [skbuff.h](#).

union { ... } sk_buff::nh

unsigned char sk_buff::pkt_type

Definition at line [239](#) of file [skbuff.h](#).

struct sk_buff * sk_buff::prev

Definition at line [194](#) of file [skbuff.h](#).

__u32 sk_buff::priority

Definition at line [243](#) of file [skbuff.h](#).

unsigned short sk_buff::protocol

Definition at line [244](#) of file [skbuff.h](#).

unsigned char* sk_buff::raw

Definition at line [221](#) of file [skbuff.h](#).

struct net_device * sk_buff::real_dev

Definition at line [200](#) of file [skbuff.h](#).

unsigned short sk_buff::security

Definition at line [244](#) of file [skbuff.h](#).

struct sock * sk_buff::sk

Definition at line [197](#) of file [skbuff.h](#).

struct sec_path * sk_buff::sp

Definition at line [225](#) of file [skbuff.h](#).

struct timeval sk_buff::stamp

Definition at line [198](#) of file [skbuff.h](#).

unsigned char * sk_buff::tail

Definition at line [271](#) of file [skbuff.h](#).

struct tcphdr* sk_buff::th

Definition at line [203](#) of file [skbuff.h](#).

unsigned int sk_buff::truesize

Definition at line [269](#) of file [skbuff.h](#).

struct udphdr* sk_buff::uh

Definition at line [204](#) of file [skbuff.h](#).

atomic_t sk_buff::users

Definition at line [270](#) of file [skbuff.h](#).

The documentation for this struct was generated from the following file:

- [skbuff.h](#)

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