NAME

pcap_setnonblock, pcap_getnonblock - set or get the state of non-blocking mode on a capture device

SYNOPSIS

#include <pcap/pcap.h>

char errbuf[PCAP_ERRBUF_SIZE];

int pcap_setnonblock(pcap_t *p, int nonblock, char *errbuf); int pcap_getnonblock(pcap_t *p, char *errbuf);

DESCRIPTION

pcap_setnonblock() puts a capture handle into "non-blocking" mode, or takes it out of "nonblocking" mode, depending on whether the *nonblock* argument is non-zero or zero. It has no effect on "savefiles". If there is an error, PCAP_ERROR is returned and *errbuf* is filled in with an appropriate error message; otherwise, 0 is returned.

In "non-blocking" mode, an attempt to read from the capture descriptor with **pcap_dispatch**(3) and **pcap_next_ex**(3) will, if no packets are currently available to be read, return **0** immediately rather than blocking waiting for packets to arrive.

pcap_loop(3) will loop forever, consuming CPU time when no packets are currently available; pcap_dispatch() should be used instead. pcap_next(3) will return NULL if there are no packets currently available to read; this is indistinguishable from an error, so pcap_next_ex() should be used instead.

When first activated with **pcap_activate**(3) or opened with **pcap_open_live**(3), a capture handle is not in "non-blocking mode"; a call to **pcap_setnonblock**() is required in order to put it into "non-blocking" mode.

RETURN VALUE

pcap_getnonblock() returns the current "non-blocking" state of the capture descriptor; it always returns 0 on "savefiles". If called on a capture handle that has been created but not activated,
PCAP_ERROR_NOT_ACTIVATED is returned. If there is another error, PCAP_ERROR is returned and *errbuf* is filled in with an appropriate error message.

errbuf is assumed to be able to hold at least **PCAP_ERRBUF_SIZE** chars.

SEE ALSO

pcap(3), pcap_next_ex(3), pcap_geterr(3)