

Behaviour of Cards Under Multicast

=====

This is how they currently behave, not what the hardware can do--for example, the Lance driver doesn't use its filter, even though the code for loading it is in the DEC Lance-based driver.

The following are requirements for multicasting

=====

AppleTalk	Multicast	hardware filtering not important but avoid cards only doing promisc
IP-Multicast	Multicast	hardware filters really help
IP-MRoute	AllMulti	hardware filters are of no help

Board	Multicast	AllMulti	Promisc	Filter
3c501	YES	YES	YES	Software
3c503	YES	YES	YES	Hardware
3c505	YES	NO	YES	Hardware
3c507	NO	NO	NO	N/A
3c509	YES	YES	YES	Software
3c59x	YES	YES	YES	Software
ac3200	YES	YES	YES	Hardware
apricot	YES	PROMISC	YES	Hardware
arcnet	NO	NO	NO	N/A
at1700	PROMISC	PROMISC	YES	Software
atp	PROMISC	PROMISC	YES	Software
cs89x0	YES	YES	YES	Software
de4x5	YES	YES	YES	Hardware
de600	NO	NO	NO	N/A
de620	PROMISC	PROMISC	YES	Software
depca	YES	PROMISC	YES	Hardware
dmfe	YES	YES	YES	Software(*)
e2100	YES	YES	YES	Hardware
eeepro	YES	PROMISC	YES	Hardware
eexpress	NO	NO	NO	N/A
ewrk3	YES	PROMISC	YES	Hardware
hp-plus	YES	YES	YES	Hardware
hp	YES	YES	YES	Hardware
hp100	YES	YES	YES	Hardware
ibmtr	NO	NO	NO	N/A
ioc3-eth	YES	YES	YES	Hardware
lance	YES	YES	YES	Software(#)
ne	YES	YES	YES	Hardware
ni52	<----- Buggy ----->			
ni65	YES	YES	YES	Software(#)
seeq	NO	NO	NO	N/A
sgiseek	<----- Buggy ----->			
smc-ultra	YES	YES	YES	Hardware
sunlance	YES	YES	YES	Hardware
tulip	YES	YES	YES	Hardware
wavelan	YES	PROMISC	YES	Hardware
wd	YES	YES	YES	Hardware
xirc2ps_cs	YES	YES	YES	Hardware
znet	YES	YES	YES	Software

multicast.txt

PROMISC = This multicast mode is in fact promiscuous mode. Avoid using cards who go PROMISC on any multicast in a multicast kernel.

(#) = Hardware multicast support is not used yet.

(*) = Hardware support for Davicom 9132 chipset only.