

ISA (and manually configured) Ethernet and SCSI devices during the NetMAX boot sequence

Starting with the Linux 2.2 Release of NetMAX, automatic probing ISA devices is no longer supported. If you have ISA Ethernet or SCSI adapters, you will need to use the "eprobe" or "sprobe" boot options. First, you should determine what settings are necessary for your ISA device(s) (See Tables 1 and 2, below). If your device allows Plug-n-Play support, you can follow the instructions in the Plug-n-Play HOWTO (<http://www.linuxdoc.org/HOWTO/Plug-and-Play-HOWTO.html>).

1. Reboot the NetMAX. You will (eventually) see:

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Cybernet's NetMAX Linux 2.2 Boot
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Enter "netmax eprobe" and press ENTER to configure ISA Ethernet adapters.
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Enter "netmax sprobe" and press ENTER to configure ISA SCSI adapters.
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Wait 30 seconds for automatic boot.
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```
LILO:
```

2. At the "LILO" prompt, type:
netmax eprobe (to configure Ethernet interfaces)

or

```
netmax sprobe (to configure SCSI interfaces)
```

and press ENTER. You will see:

```
[[...several boot messages...]]
Probe Device: <DEVICE DESCRIPTION>
(Y)es/(N)o/(Q)uit/(S)ave? [N]
```

3. At this point, you will be able to cycle through all of the available "modules" which are available as optionally loaded at boot time. Typically (but not always) you will need to know the IRQ and I/O Address for ISA devices.
4. When you reach a device you wish to configure, type 'Y' and press ENTER.
5. You will see:

Automatically probe this card's configuration ([Y] or N):

- Pressing ENTER will attempt to automatically determine the settings for the card. ***WARNING*** This may cause your computer to stop responding.
- Type 'N' and press ENTER to manually set up the device. Depending upon the device, the parameters which are required will vary. With Ethernet adapters, the typical responses require IRQ and I/O Address. For example
 - a. You will see:
Value for io:
 - b. Your response might be:
0x300
 - c. You will see:
Value is now 0x300
Value for irq:
 - d. Your response might be:
10
 - e. You see see:
Value is now 10

At this point in the example, all of the parameters have been entered, and the device will now be probed. You will receive a message stating whether or not the probe has been successful.

6. Once you have configured all of the ISA devices necessary for installation, type 'S' and press ENTER to save your options.

ISA and Manually Configured Ethernet Devices (TABLE 1)

Driver Name	Supported Cards	Parameters (colon separated)
3c501	3Com 501	io:irq
3c503	3Com 503	io:irq:xcvr
3c505	3Com 505	io:irq:dma
3c507	3Com 507	io:irq
3c509	3c509 EtherLink III	irq:xcvr
3c515	3Com ISA EtherLink XL "Corkscrew"	debug:options:full_duplex:rx_copybreak:max_interrupt_work
wd	WD8003 and WD8013 "compatible"	io:irq:mem:mem_end
smc-ultra	SMC Ultra and SMC EtherEZ ISA	io:irq
smc9194	SMC 9000 Series	io:irq:ifport
ni5010	MiCom-Interlan NI5010	io:irq
ni52	NI5210 card (i82586 Ethernet chip)	io:irq:memstart:memend
ni65	ni6510 (am7990 'lance' chip)	irq:io:dma
at1700	Allied Telesis AT1700	io:irq
e2100	Cabletron E2100	io:irq:mem:xcvr
depca	DIGITAL DEPCA & EtherWORKS	irq:io
ewrk3	DIGITAL EtherWORKS 3	io:irq
eexpress	Intel EtherExpress 16	io:irq
eeepro	Intel EtherExpress Pro/10	io:irq:mem
fmv18x	Fujitsu FMV-181/182/183/184	io:irq
hp-plus	HP PCLAN/plus	io:irq
hp	HP PC-LAN	io:irq
eth16i	ICL EtherTeam 16i and 32 EISA	ioaddr:mediatype
ne	general non-shared-memory NS8390	io:irq
seeq8005	SEEQ 8005 chipset	io:irq
ac3200	Ansel Communications EISA	io:irq:mem
82596	Generic 82596 (Apricot)	irq
cs89x0	Crystal Semiconductor CS89[02]0	io:irq:media:duplex
de4x5	DIGITAL DC21x4x DECchip and DE425/DE434/DE435/DE450/DE500	io
lne390	Mylex LNE390 EISA	io:irq:mem
ne3210	Novell NE3210 EISA	io:irq:mem
es3210	Racal-Interlan EISA ES3210	io:irq:mem
epic100	SMC EtherPower II (EXPERIMENTAL)	
sb1000	General Instruments SurfBoard 1000	io:irq

ISA and Manually Configured SCSI Devices (TABLE 2)

Driver Name	Supported Cards	Parameters
NCR53c406a	NCR53c406a USAGE: portbase,irq,fastpio	
sym53c8xx	Symbios 53C896 controller: This driver also supports all the Symbios 53C8XX controller family, except 53C810 revisions < 16, 53C825 revisions < 16 and all revisions of 53C815 controllers.	sym53c8xx
53c7,8xx	Support for NCR53c7xx and NCR53c8xx base board (no options - use autoprobe)	
aha152x	Adaptec AHA-1520/1522 (First card) USAGE: ioport,irq,scsi_id,reconnect,parity,synchronous,delay,ext_trans	aha152x
aha152x	Adaptec AHA-1520/1522 (Second card) USAGE: ioport,irq,scsi_id,reconnect,parity,synchronous,delay,ext_trans	aha152x1
aha1542	Adaptec 1542 USAGE: io_base,buson,busoff,dmaspeed	aha1542
eata	DTP SCSI host adapters (EATA/DMA), PM2011B/9X ISA, PM2021A/9X ISA,PM2012A, PM2012B,PM2022A/9X EISA, PM2122A/9X, PM2322A/9X, SmartRAID PM3021, PM3222, PM3224	io_port, linked_comm, tagged_comm, link_statistics, max_queue_depth, tag_mode, use_new_ah_code, ext_tran, rev_scan
fdomain	Future Domain TMC-1800, TMC-18C50, TMC-18C30, TMC-36C70, TMC-1650, TMC-1660, TMC-1670, TMC-1680, TMC-1610M/MER/MEX, TMC-3260 (PCI) Quantum ISA-200S, ISA-250MG Adaptec AHA-2920A (PCI) (NOT AHA-2920C) USAGE: <PORT_BASE>,<IRQ>[,<ADAPTER_ID>]	fdomain
g_NCR5380	NCR5380, NCR53c400 and DTC3181E ncr_io,ncr_irq,ncr_dma,ncr_5380,ncr_53c400,ncr_53c400a,dtc_3181e	
gdth	GDT EISA controllers GDT3000/3020 GDT3000A/3020A/3050A GDT3000B/3010A GDT	
ISA controllers GDT2000/2020	irq,disable,reserve_mode,reserve_list,reverse_scan,hdr_channel,max_ids,rescan	
imm	IOMEGA MatchMaker parallel port (USAGE: no options - select autoprobe)	
in2000	Always IN2000 ISA USAGE: ioport:addr,noreset,nosync:x,period:ns,disconnect:x, debug:x,proc:x	setup_strings
ips	IBM ServeRAID, II, 3H, 3L (PCI - select autoprobe)	
pas16	Pro Audio Spectrum/Studio 16	pas16_addr,pas16_irq
ppa	IOMEGA PPA3 parallel port (No options - select autoprobe)	
seagate	ST01/ST02 USAGE: st0x=ADDRESS,IRQ	
seagate	Future Domain TMC-885 or TMC-950 USAGE: tmc8xx=ADDRESS,IRQ	
sim710	NCR53c710 (dangerous) USAGE: addr:0xnnnn irq:nn	sim710
sym53c416	Cards with the sym53c416 chipset USAGE: <PORTBASE>[,<IRQ>])	sym53c416
t128	Trantor T128/T128F/T228 USAGE: no options - use autoprobe	
u14-34f	UltraStor 14F/34F	io_port, linked_comm, have_old_firmware, link_statistics, max_queue_depth, use_new_ah_code, ext_tran
ultrastor	UltraStor 14F, 24F, and 34F (No options - use autoprobe)	

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