

Linux 设备分配清单(kernel:2.6+)

MAJOR

MINOR

0

Unnamed devices (e.g. non-device mounts)

0 = reserved as null device number

See block major 144, 145, 146 for expansion areas.

1 char Memory devices

1 = /dev/mem	Physical memory access
2 = /dev/kmem	Kernel virtual memory access
3 = /dev/null	Null device
4 = /dev/port	I/O port access
5 = /dev/zero	Null byte source
6 = /dev/core	OBSOLETE - replaced by /proc/kcore
7 = /dev/full	Returns ENOSPC on write
8 = /dev/random	Nondeterministic random number gen.
9 = /dev/urandom	Faster, less secure random number gen.
10 = /dev/aio	Asynchronous I/O notification interface
11 = /dev/kmsg	Writes to this come out as printk's

1 block RAM disk

0 = /dev/ram0	First RAM disk
1 = /dev/ram1	Second RAM disk
...	
250 = /dev/initrd	Initial RAM disk {2.6}

Older kernels had /dev/ramdisk (1, 1) here.

/dev/initrd refers to a RAM disk which was preloaded by the boot loader; newer kernels use /dev/ram0 for the initrd.

2 char Pseudo-TTY masters

0 = /dev/ptyp0	First PTY master
1 = /dev/ptyp1	Second PTY master
...	
255 = /dev/ptyef	256th PTY master

Pseudo-tty's are named as follows:

- * Masters are "pty", slaves are "tty";
- * the fourth letter is one of pqrstuvwxyzabcde indicating the 1st through 16th series of 16 pseudo-tty's each, and
- * the fifth letter is one of 0123456789abcdef indicating the position within the series.

These are the old-style (BSD) PTY devices; Unix98 devices are on major 128 and above and use the PTY master multiplex (/dev/ptmx) to acquire a PTY on demand.

2 block Floppy disks

0 = /dev/fd0	Controller 0, drive 0, autodetect
1 = /dev/fd1	Controller 0, drive 1, autodetect
2 = /dev/fd2	Controller 0, drive 2, autodetect
3 = /dev/fd3	Controller 0, drive 3, autodetect
128 = /dev/fd4	Controller 1, drive 0, autodetect
129 = /dev/fd5	Controller 1, drive 1, autodetect
130 = /dev/fd6	Controller 1, drive 2, autodetect
131 = /dev/fd7	Controller 1, drive 3, autodetect

To specify format, add to the autodetect device number:

0 = /dev/fd?	Autodetect format
4 = /dev/fd?d360	5.25" 360K in a 360K drive(1)
20 = /dev/fd?h360	5.25" 360K in a 1200K drive(1)
48 = /dev/fd?h410	5.25" 410K in a 1200K drive
64 = /dev/fd?h420	5.25" 420K in a 1200K drive
24 = /dev/fd?h720	5.25" 720K in a 1200K drive
80 = /dev/fd?h880	5.25" 880K in a 1200K drive(1)
8 = /dev/fd?h1200	5.25" 1200K in a 1200K drive(1)
40 = /dev/fd?h1440	5.25" 1440K in a 1200K drive(1)
56 = /dev/fd?h1476	5.25" 1476K in a 1200K drive
72 = /dev/fd?h1494	5.25" 1494K in a 1200K drive
92 = /dev/fd?h1600	5.25" 1600K in a 1200K drive(1)
12 = /dev/fd?u360	3.5" 360K Double Density(2)
16 = /dev/fd?u720	3.5" 720K Double Density(1)
120 = /dev/fd?u800	3.5" 800K Double Density(2)
52 = /dev/fd?u820	3.5" 820K Double Density
68 = /dev/fd?u830	3.5" 830K Double Density
84 = /dev/fd?u1040	3.5" 1040K Double Density(1)
88 = /dev/fd?u1120	3.5" 1120K Double Density(1)
28 = /dev/fd?u1440	3.5" 1440K High Density(1)
124 = /dev/fd?u1600	3.5" 1600K High Density(1)
44 = /dev/fd?u1680	3.5" 1680K High Density(3)
60 = /dev/fd?u1722	3.5" 1722K High Density
76 = /dev/fd?u1743	3.5" 1743K High Density
96 = /dev/fd?u1760	3.5" 1760K High Density
116 = /dev/fd?u1840	3.5" 1840K High Density(3)

100 = /dev/fd?u1920 3.5" 1920K High Density(1)
 32 = /dev/fd?u2880 3.5" 2880K Extra Density(1)
 104 = /dev/fd?u3200 3.5" 3200K Extra Density
 108 = /dev/fd?u3520 3.5" 3520K Extra Density
 112 = /dev/fd?u3840 3.5" 3840K Extra Density(1)

36 = /dev/fd?CompaQ Compaq 2880K drive; obsolete?

- (1) Autodetectable format
- (2) Autodetectable format in a Double Density (720K) drive only
- (3) Autodetectable format in a High Density (1440K) drive only

NOTE: The letter in the device name (d, q, h or u) signifies the type of drive: 5.25" Double Density (d), 5.25" Quad Density (q), 5.25" High Density (h) or 3.5" (any model, u). The use of the capital letters D, H and E for the 3.5" models have been deprecated, since the drive type is insignificant for these devices.

3 char Pseudo-TTY slaves

0 = /dev/tty0 First PTY slave
 1 = /dev/tty1 Second PTY slave
 ...
 255 = /dev/ttyef 256th PTY slave

These are the old-style (BSD) PTY devices; Unix98 devices are on major 136 and above.

3 block First MFM, RLL and IDE hard disk/CD-ROM interface

0 = /dev/hda Master: whole disk (or CD-ROM)
 64 = /dev/hdb Slave: whole disk (or CD-ROM)

For partitions, add to the whole disk device number:

0 = /dev/hd? Whole disk
 1 = /dev/hd?1 First partition
 2 = /dev/hd?2 Second partition
 ...
 63 = /dev/hd?63 63rd partition

For Linux/i386, partitions 1-4 are the primary partitions, and 5 and above are logical partitions. Other versions of Linux use partitioning schemes appropriate to their respective architectures.

4 char TTY devices

0 = /dev/tty0	默认当前虚拟控制台
1 = /dev/tty1	First virtual console
...	
63 = /dev/tty63	63rd virtual console
64 = /dev/ttyS0	First UART serial port
...	
255 = /dev/ttyS191	192nd UART serial port

UART serial ports refer to 8250/16450/16550 series devices.

Older versions of the Linux kernel used this major number for BSD PTY devices. As of Linux 2.1.115, this is no longer supported. Use major numbers 2 and 3.

4 block Aliases for dynamically allocated major devices to be used when its not possible to create the real device nodes because the root filesystem is mounted read-only.

0 = /dev/root

5 char Alternate TTY devices

0 = /dev/tty	Current TTY device
1 = /dev/console	System console
2 = /dev/ptmx	PTY master multiplex
64 = /dev/cua0	Callout device for ttyS0
...	
255 = /dev/cua191	Callout device for ttyS191

(5,1) is /dev/console starting with Linux 2.1.71. See the section on terminal devices for more information on /dev/console.

6 char Parallel printer devices

0 = /dev/lp0	Parallel printer on parport0
1 = /dev/lp1	Parallel printer on parport1
...	

Current Linux kernels no longer have a fixed mapping between parallel ports and I/O addresses. Instead, they are redirected through the parport multiplex layer.

7 char Virtual console capture devices

0 = /dev/vcs	Current vc text contents
1 = /dev/vcs1	tty1 text contents
...	
63 = /dev/vcs63	tty63 text contents
128 = /dev/vcsa	Current vc text/attribute contents
129 = /dev/vcsa1	tty1 text/attribute contents
...	
191 = /dev/vcsa63	tty63 text/attribute contents

NOTE: These devices permit both read and write access.

7 block Loopback devices

0 = /dev/loop0	First loop device
1 = /dev/loop1	Second loop device
...	

The loop devices are used to mount filesystems not associated with block devices. The binding to the loop devices is handled by mount(8) or losetup(8).

8 block SCSI disk devices (0-15)

0 = /dev/sda	First SCSI disk whole disk
16 = /dev/sdb	Second SCSI disk whole disk
32 = /dev/sdc	Third SCSI disk whole disk
...	
240 = /dev/sdp	Sixteenth SCSI disk whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

9 char SCSI tape devices

0 = /dev/st0	First SCSI tape, mode 0
1 = /dev/st1	Second SCSI tape, mode 0
...	
32 = /dev/st0l	First SCSI tape, mode 1
33 = /dev/st1l	Second SCSI tape, mode 1
...	
64 = /dev/st0m	First SCSI tape, mode 2
65 = /dev/st1m	Second SCSI tape, mode 2
...	
96 = /dev/st0a	First SCSI tape, mode 3
97 = /dev/st1a	Second SCSI tape, mode 3
...	

128 = /dev/nst0	First SCSI tape, mode 0, no rewind
129 = /dev/nst1	Second SCSI tape, mode 0, no rewind
...	
160 = /dev/nst0l	First SCSI tape, mode 1, no rewind
161 = /dev/nst1l	Second SCSI tape, mode 1, no rewind
...	
192 = /dev/nst0m	First SCSI tape, mode 2, no rewind
193 = /dev/nst1m	Second SCSI tape, mode 2, no rewind
...	
224 = /dev/nst0a	First SCSI tape, mode 3, no rewind
225 = /dev/nst1a	Second SCSI tape, mode 3, no rewind
...	

"No rewind" refers to the omission of the default automatic rewind on device close. The MTREW or MTOFFL ioctl()'s can be used to rewind the tape regardless of the device used to access it.

9 block Metadisk (RAID) devices

0 = /dev/md0	First metadisk group
1 = /dev/md1	Second metadisk group
...	

The metadisk driver is used to span a filesystem across multiple physical disks.

10 char Non-serial mice, misc features

0 = /dev/logibm	Logitech bus mouse
1 = /dev/psaux	PS/2-style mouse port
2 = /dev/inportbm	Microsoft Inport bus mouse
3 = /dev/atibm	ATI XL bus mouse
4 = /dev/jbm	J-mouse
4 = /dev/amigamouse	Amiga mouse (68k/Amiga)
5 = /dev/atarimouse	Atari mouse
6 = /dev/sunmouse	Sun mouse
7 = /dev/amigamouse1	Second Amiga mouse
8 = /dev/smouse	Simple serial mouse driver
9 = /dev/pc110pad	IBM PC-110 digitizer pad
10 = /dev/adbmouse	Apple Desktop Bus mouse
11 = /dev/vrtpanel	Vr41xx embedded touch panel
13 = /dev/vpcmouse	Connectix Virtual PC Mouse
14 = /dev/touchscreen/ucb1x00	UCB 1x00 touchscreen
15 = /dev/touchscreen/mk712	MK712 touchscreen
128 = /dev/beep	Fancy beep device

129 = /dev/modreq	Kernel module load request {2.6}
130 = /dev/watchdog	Watchdog timer port
131 = /dev/temperature	Machine internal temperature
132 = /dev/hwtrap	Hardware fault trap
133 = /dev/exttrp	External device trap
134 = /dev/apm_bios	Advanced Power Management BIOS
135 = /dev/rtc	Real Time Clock
139 = /dev/openprom	SPARC OpenBoot PROM
140 = /dev/relay8	Berkshire Products Octal relay card
141 = /dev/relay16	Berkshire Products ISO-16 relay card
142 = /dev/msr	x86 model-specific registers {2.6}
143 = /dev/pciconf	PCI configuration space
144 = /dev/nvram	Non-volatile configuration RAM
145 = /dev/hfmodem	Soundcard shortwave modem control {2.6}
146 = /dev/graphics	Linux/SGI graphics device
147 = /dev/opengl	Linux/SGI OpenGL pipe
148 = /dev/gfx	Linux/SGI graphics effects device
149 = /dev/input/mouse	Linux/SGI Irix emulation mouse
150 = /dev/input/keyboard	Linux/SGI Irix emulation keyboard
151 = /dev/led	Front panel LEDs
152 = /dev/kpoll	Kernel Poll Driver
153 = /dev/mergemem	Memory merge device
154 = /dev/pmu	Macintosh PowerBook power manager
155 = /dev/isictl	MultiTech ISICom serial control
156 = /dev/lcd	Front panel LCD display
157 = /dev/ac	Applicom Intl Profibus card
158 = /dev/nwbutton	Netwinder external button
159 = /dev/nwdebug	Netwinder debug interface
160 = /dev/nwflash	Netwinder flash memory
161 = /dev/userdma	User-space DMA access
162 = /dev/smbus	System Management Bus
163 = /dev/lik	Logitech Internet Keyboard
164 = /dev/ipmo	Intel Intelligent Platform Management
165 = /dev/vmmon	VMWare virtual machine monitor
166 = /dev/i2o/ctl	I2O configuration manager
167 = /dev/specialix_sxctl	Specialix serial control
168 = /dev/tcldrv	Technology Concepts serial control
169 = /dev/specialix_riocctl	Specialix RIO serial control
170 = /dev/thinkpad/thinkpad	IBM Thinkpad devices
171 = /dev/srripic	QNX4 API IPC manager
172 = /dev/usemaclone	Semaphore clone device
173 = /dev/ipmikcs	Intelligent Platform Management
174 = /dev/uctrl	SPARCbook 3 microcontroller
175 = /dev/agpgart	AGP Graphics Address Remapping Table

176 = /dev/gtrsc	Gorgy Timing radio clock
177 = /dev/cbm	Serial CBM bus
178 = /dev/jsflash	JavaStation OS flash SIMM
179 = /dev/xsvc	High-speed shared-mem/semaphore service
180 = /dev/vrbuttons	Vr41xx button input device
181 = /dev/toshiba	Toshiba laptop SMM support
182 = /dev/perfctr	Performance-monitoring counters
183 = /dev/hwrng	Generic random number generator
184 = /dev/cpu/microcode	CPU microcode update interface
186 = /dev/atomicps	Atomic shapshot of process state data
187 = /dev/irnet	IrNET device
188 = /dev/smbusbios	SMBus BIOS
189 = /dev/ussp_ctl	User space serial port control
190 = /dev/crash	Mission Critical Linux crash dump facility
191 = /dev/pcl181	<information missing>
192 = /dev/nas_xbus	NAS xbus LCD/buttons access
193 = /dev/d7s	SPARC 7-segment display
194 = /dev/zkshim	Zero-Knowledge network shim control
195 = /dev/elographics/e2201	Elographics touchscreen E271-2201
198 = /dev/sexec	Signed executable interface
199 = /dev/scanners/cuecat	:CueCat barcode scanner
200 = /dev/net/tun	TAP/TUN network device
201 = /dev/button/gulpb	Transmeta GULP-B buttons
202 = /dev/emd/ctl	Enhanced Metadisk RAID (EMD) control
204 = /dev/video/em8300	EM8300 DVD decoder control
205 = /dev/video/em8300_mv	EM8300 DVD decoder video
206 = /dev/video/em8300_ma	EM8300 DVD decoder audio
207 = /dev/video/em8300_sp	EM8300 DVD decoder subpicture
208 = /dev/compaq/cpqphpc	Compaq PCI Hot Plug Controller
209 = /dev/compaq/cpqrid	Compaq Remote Insight Driver
210 = /dev/impi/bt	IMPI coprocessor block transfer
211 = /dev/impi/smic	IMPI coprocessor stream interface
212 = /dev/watchdogs/0	First watchdog device
213 = /dev/watchdogs/1	Second watchdog device
214 = /dev/watchdogs/2	Third watchdog device
215 = /dev/watchdogs/3	Fourth watchdog device
216 = /dev/fujitsu/apanel	Fujitsu/Siemens application panel
217 = /dev/ni/natmotn	National Instruments Motion
218 = /dev/kchuid	Inter-process chuid control
219 = /dev/modems/mwave	MWave modem firmware upload
220 = /dev/mptctl	Message passing technology (MPT) control
221 = /dev/mvista/hssdsi	Montavista PICMG hot swap system driver
222 = /dev/mvista/hasi	Montavista PICMG high availability
223 = /dev/input/uinput	User level driver support for input

224 = /dev/tpm	TCPA TPM driver
225 = /dev/pps	Pulse Per Second driver
226 = /dev/systrace	Systrace device
227 = /dev/mcelog	X86_64 Machine Check Exception driver
228 = /dev/hpet	HPET driver
229 = /dev/fuse	Fuse (virtual filesystem in user-space)
230 = /dev/midishare	MidiShare driver
240-254	Reserved for local use
255	Reserved for MISC_DYNAMIC_MINOR

11 char Raw keyboard device (Linux/SPARC only)
 0 = /dev/kbd Raw keyboard device

11 char Serial Mux device (Linux/PA-RISC only)
 0 = /dev/ttyB0 First mux port
 1 = /dev/ttyB1 Second mux port
 ...

11 block SCSI CD-ROM devices

0 = /dev/scd0	First SCSI CD-ROM
1 = /dev/scd1	Second SCSI CD-ROM
...	

The prefix /dev/sr (instead of /dev/scd) has been deprecated.

12 char QIC-02 tape

2 = /dev/ntpqc11	QIC-11, no rewind-on-close
3 = /dev/tpqc11	QIC-11, rewind-on-close
4 = /dev/ntpqc24	QIC-24, no rewind-on-close
5 = /dev/tpqc24	QIC-24, rewind-on-close
6 = /dev/ntpqc120	QIC-120, no rewind-on-close
7 = /dev/tpqc120	QIC-120, rewind-on-close
8 = /dev/ntpqc150	QIC-150, no rewind-on-close
9 = /dev/tpqc150	QIC-150, rewind-on-close

The device names specified are proposed -- if there are "standard" names for these devices, please let me know.

12 block MSCDEX CD-ROM callback support {2.6}

0 = /dev/dos_cd0	First MSCDEX CD-ROM
1 = /dev/dos_cd1	Second MSCDEX CD-ROM
...	

13 char Input core

0 = /dev/input/js0 First joystick
 1 = /dev/input/js1 Second joystick
 ...
 32 = /dev/input/mouse0 First mouse
 33 = /dev/input/mouse1 Second mouse
 ...
 63 = /dev/input/mice Unified mouse
 64 = /dev/input/event0 First event queue
 65 = /dev/input/event1 Second event queue
 ...

Each device type has 5 bits (32 minors).

13 block 8-bit MFM/RLL/IDE controller

0 = /dev/xda First XT disk whole disk
 64 = /dev/xdb Second XT disk whole disk

Partitions are handled in the same way as IDE disks
(see major number 3).

14 char Open Sound System (OSS)

0 = /dev/mixer Mixer control
 1 = /dev/sequencer Audio sequencer
 2 = /dev/midi00 First MIDI port
 3 = /dev/dsp Digital audio
 4 = /dev/audio Sun-compatible digital audio
 6 = /dev/sndstat Sound card status information {2.6}
 7 = /dev/audioctl SPARC audio control device
 8 = /dev/sequencer2 Sequencer -- alternate device
 16 = /dev/mixer1 Second soundcard mixer control
 17 = /dev/patmgr0 Sequencer patch manager
 18 = /dev/midi01 Second MIDI port
 19 = /dev/dsp1 Second soundcard digital audio
 20 = /dev/audio1 Second soundcard Sun digital audio
 33 = /dev/patmgr1 Sequencer patch manager
 34 = /dev/midi02 Third MIDI port
 50 = /dev/midi03 Fourth MIDI port

14 block BIOS harddrive callback support {2.6}

0 = /dev/dos_hda First BIOS harddrive whole disk
 64 = /dev/dos_hdb Second BIOS harddrive whole disk
 128 = /dev/dos_hdc Third BIOS harddrive whole disk
 192 = /dev/dos_hdd Fourth BIOS harddrive whole disk

Partitions are handled in the same way as IDE disks

(see major number 3).

15 char	Joystick		
		0 = /dev/js0	First analog joystick
		1 = /dev/js1	Second analog joystick
		...	
		128 = /dev/djs0	First digital joystick
		129 = /dev/djs1	Second digital joystick
		...	
15 block	Sony CDU-31A/CDU-33A CD-ROM		
		0 = /dev/sonycd	Sony CDU-31a CD-ROM
16 char	Non-SCSI scanners		
		0 = /dev/gs4500	Genius 4500 handheld scanner
16 block	GoldStar CD-ROM		
		0 = /dev/gscd	GoldStar CD-ROM
17 char	Chase serial card		
		0 = /dev/ttyH0	First Chase port
		1 = /dev/ttyH1	Second Chase port
		...	
17 block	Optics Storage CD-ROM		
		0 = /dev/optcd	Optics Storage CD-ROM
18 char	Chase serial card - alternate devices		
		0 = /dev/cuh0	Callout device for ttyH0
		1 = /dev/cuh1	Callout device for ttyH1
		...	
18 block	Sanyo CD-ROM		
		0 = /dev/sjcd	Sanyo CD-ROM
19 char	Cyclades serial card		
		0 = /dev/ttyC0	First Cyclades port
		...	
		31 = /dev/ttyC31	32nd Cyclades port
19 block	"Double" compressed disk		
		0 = /dev/double0	First compressed disk
		...	
		7 = /dev/double7	Eighth compressed disk
		128 = /dev/cdouble0	Mirror of first compressed disk
		...	
		135 = /dev/cdouble7	Mirror of eighth compressed disk

See the Double documentation for the meaning of the

mirror devices.

20 char Cyclades serial card - alternate devices

0 = /dev/cub0 Callout device for ttyC0

...

31 = /dev/cub31 Callout device for ttyC31

20 block Hitachi CD-ROM (under development)

0 = /dev/hitcd Hitachi CD-ROM

21 char Generic SCSI access

0 = /dev/sg0 First generic SCSI device

1 = /dev/sg1 Second generic SCSI device

...

Most distributions name these /dev/sga, /dev/sgb...;

this sets an unnecessary limit of 26 SCSI devices in

the system and is counter to standard Linux

device-naming practice.

21 block Acorn MFM hard drive interface

0 = /dev/mfma First MFM drive whole disk

64 = /dev/mfmb Second MFM drive whole disk

This device is used on the ARM-based Acorn RiscPC.

Partitions are handled the same way as for IDE disks

(see major number 3).

22 char Digiboard serial card

0 = /dev/ttyD0 First Digiboard port

1 = /dev/ttyD1 Second Digiboard port

...

22 block Second IDE hard disk/CD-ROM interface

0 = /dev/hdc Master: whole disk (or CD-ROM)

64 = /dev/hdd Slave: whole disk (or CD-ROM)

Partitions are handled the same way as for the first

interface (see major number 3).

23 char Digiboard serial card - alternate devices

0 = /dev/cud0 Callout device for ttyD0

1 = /dev/cud1 Callout device for ttyD1

...

23 block Mitsumi proprietary CD-ROM

0 = /dev/mcd Mitsumi CD-ROM

24 char	Stallion serial card	
	0 = /dev/ttyE0	Stallion port 0 card 0
	1 = /dev/ttyE1	Stallion port 1 card 0
	...	
	64 = /dev/ttyE64	Stallion port 0 card 1
	65 = /dev/ttyE65	Stallion port 1 card 1
	...	
	128 = /dev/ttyE128	Stallion port 0 card 2
	129 = /dev/ttyE129	Stallion port 1 card 2
	...	
	192 = /dev/ttyE192	Stallion port 0 card 3
	193 = /dev/ttyE193	Stallion port 1 card 3
	...	
24 block	Sony CDU-535 CD-ROM	
	0 = /dev/cdu535	Sony CDU-535 CD-ROM
25 char	Stallion serial card - alternate devices	
	0 = /dev/cue0	Callout device for ttyE0
	1 = /dev/cue1	Callout device for ttyE1
	...	
	64 = /dev/cue64	Callout device for ttyE64
	65 = /dev/cue65	Callout device for ttyE65
	...	
	128 = /dev/cue128	Callout device for ttyE128
	129 = /dev/cue129	Callout device for ttyE129
	...	
	192 = /dev/cue192	Callout device for ttyE192
	193 = /dev/cue193	Callout device for ttyE193
	...	
25 block	First Matsushita (Panasonic/SoundBlaster) CD-ROM	
	0 = /dev/sbpcd0	Panasonic CD-ROM controller 0 unit 0
	1 = /dev/sbpcd1	Panasonic CD-ROM controller 0 unit 1
	2 = /dev/sbpcd2	Panasonic CD-ROM controller 0 unit 2
	3 = /dev/sbpcd3	Panasonic CD-ROM controller 0 unit 3
26 char	Quanta WinVision frame grabber {2.6}	
	0 = /dev/wvisgrab	Quanta WinVision frame grabber
26 block	Second Matsushita (Panasonic/SoundBlaster) CD-ROM	
	0 = /dev/sbpcd4	Panasonic CD-ROM controller 1 unit 0
	1 = /dev/sbpcd5	Panasonic CD-ROM controller 1 unit 1
	2 = /dev/sbpcd6	Panasonic CD-ROM controller 1 unit 2
	3 = /dev/sbpcd7	Panasonic CD-ROM controller 1 unit 3

27 char	QIC-117 tape	
	0 = /dev/qft0	Unit 0, rewind-on-close
	1 = /dev/qft1	Unit 1, rewind-on-close
	2 = /dev/qft2	Unit 2, rewind-on-close
	3 = /dev/qft3	Unit 3, rewind-on-close
	4 = /dev/nqft0	Unit 0, no rewind-on-close
	5 = /dev/nqft1	Unit 1, no rewind-on-close
	6 = /dev/nqft2	Unit 2, no rewind-on-close
	7 = /dev/nqft3	Unit 3, no rewind-on-close
	16 = /dev/zqft0	Unit 0, rewind-on-close, compression
	17 = /dev/zqft1	Unit 1, rewind-on-close, compression
	18 = /dev/zqft2	Unit 2, rewind-on-close, compression
	19 = /dev/zqft3	Unit 3, rewind-on-close, compression
	20 = /dev/nzqft0	Unit 0, no rewind-on-close, compression
	21 = /dev/nzqft1	Unit 1, no rewind-on-close, compression
	22 = /dev/nzqft2	Unit 2, no rewind-on-close, compression
	23 = /dev/nzqft3	Unit 3, no rewind-on-close, compression
	32 = /dev/rawqft0	Unit 0, rewind-on-close, no file marks
	33 = /dev/rawqft1	Unit 1, rewind-on-close, no file marks
	34 = /dev/rawqft2	Unit 2, rewind-on-close, no file marks
	35 = /dev/rawqft3	Unit 3, rewind-on-close, no file marks
	36 = /dev/nrawqft0	Unit 0, no rewind-on-close, no file marks
	37 = /dev/nrawqft1	Unit 1, no rewind-on-close, no file marks
	38 = /dev/nrawqft2	Unit 2, no rewind-on-close, no file marks
	39 = /dev/nrawqft3	Unit 3, no rewind-on-close, no file marks
27 block	Third Matsushita (Panasonic/SoundBlaster) CD-ROM	
	0 = /dev/sbpcd8	Panasonic CD-ROM controller 2 unit 0
	1 = /dev/sbpcd9	Panasonic CD-ROM controller 2 unit 1
	2 = /dev/sbpcd10	Panasonic CD-ROM controller 2 unit 2
	3 = /dev/sbpcd11	Panasonic CD-ROM controller 2 unit 3
28 char	Stallion serial card - card programming	
	0 = /dev/staliomem0	First Stallion card I/O memory
	1 = /dev/staliomem1	Second Stallion card I/O memory
	2 = /dev/staliomem2	Third Stallion card I/O memory
	3 = /dev/staliomem3	Fourth Stallion card I/O memory
28 char	Atari SLM ACSI laser printer (68k/Atari)	
	0 = /dev/slm0	First SLM laser printer
	1 = /dev/slm1	Second SLM laser printer
	...	
28 block	Fourth Matsushita (Panasonic/SoundBlaster) CD-ROM	
	0 = /dev/sbpcd12	Panasonic CD-ROM controller 3 unit 0
	1 = /dev/sbpcd13	Panasonic CD-ROM controller 3 unit 1
	2 = /dev/sbpcd14	Panasonic CD-ROM controller 3 unit 2

		3 = /dev/sbpcd15	Panasonic CD-ROM controller 3 unit 3
28 block	ACSI disk (68k/Atari)		
		0 = /dev/ada	First ACSI disk whole disk
		16 = /dev/adb	Second ACSI disk whole disk
		32 = /dev/adc	Third ACSI disk whole disk
		...	
		240 = /dev/adp	16th ACSI disk whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15, like SCSI.

29 char	Universal frame buffer		
		0 = /dev/fb0	First frame buffer
		1 = /dev/fb1	Second frame buffer
		...	
		31 = /dev/fb31	32nd frame buffer

29 block	Aztech/Orchid/Okano/Wearnes CD-ROM		
		0 = /dev/aztcd	Aztech CD-ROM

30 char	iBCS-2 compatibility devices		
		0 = /dev/socksys	Socket access
		1 = /dev/spx	SVR3 local X interface
		32 = /dev/inet/ip	Network access
		33 = /dev/inet/icmp	
		34 = /dev/inet/ggp	
		35 = /dev/inet/ipip	
		36 = /dev/inet/tcp	
		37 = /dev/inet/egp	
		38 = /dev/inet/pup	
		39 = /dev/inet/udp	
		40 = /dev/inet/idp	
		41 = /dev/inet/rawip	

Additionally, iBCS-2 requires the following links:

```

/dev/ip -> /dev/inet/ip
/dev/icmp -> /dev/inet/icmp
/dev/ggp -> /dev/inet/ggp
/dev/ipip -> /dev/inet/ipip
/dev/tcp -> /dev/inet/tcp
/dev/egp -> /dev/inet/egp
/dev/pup -> /dev/inet/pup

```

/dev/udp -> /dev/inet/udp
/dev/idp -> /dev/inet/idp
/dev/rawip -> /dev/inet/rawip
/dev/inet/arp -> /dev/inet/udp
/dev/inet/rip -> /dev/inet/udp
/dev/nfsd -> /dev/socksys
/dev/XOR -> /dev/null (? apparently not required ?)

30 block Philips LMS CM-205 CD-ROM
0 = /dev/cm205cd Philips LMS CM-205 CD-ROM

/dev/lmscd is an older name for this device. This driver does not work with the CM-205MS CD-ROM.

31 char MPU-401 MIDI
0 = /dev/mpu401data MPU-401 data port
1 = /dev/mpu401stat MPU-401 status port

31 block ROM/flash memory card
0 = /dev/rom0 First ROM card (rw)
...
7 = /dev/rom7 Eighth ROM card (rw)
8 = /dev/rrom0 First ROM card (ro)
...
15 = /dev/rrom7 Eighth ROM card (ro)
16 = /dev/flash0 First flash memory card (rw)
...
23 = /dev/flash7 Eighth flash memory card (rw)
24 = /dev/rflash0 First flash memory card (ro)
...
31 = /dev/rflash7 Eighth flash memory card (ro)

The read-write (rw) devices support back-caching written data in RAM, as well as writing to flash RAM devices. The read-only devices (ro) support reading only.

32 char Specialix serial card
0 = /dev/ttyX0 First Specialix port
1 = /dev/ttyX1 Second Specialix port
...

32 block Philips LMS CM-206 CD-ROM
0 = /dev/cm206cd Philips LMS CM-206 CD-ROM

33 char Specialix serial card - alternate devices

0 = /dev/cux0 Callout device for ttyX0
1 = /dev/cux1 Callout device for ttyX1

...

33 block Third IDE hard disk/CD-ROM interface

0 = /dev/hde Master: whole disk (or CD-ROM)
64 = /dev/hdf Slave: whole disk (or CD-ROM)

Partitions are handled the same way as for the first interface (see major number 3).

34 char Z8530 HDLC driver

0 = /dev/scc0 First Z8530, first port
1 = /dev/scc1 First Z8530, second port
2 = /dev/scc2 Second Z8530, first port
3 = /dev/scc3 Second Z8530, second port

...

In a previous version these devices were named /dev/sc1 for /dev/scc0, /dev/sc2 for /dev/scc1, and so on.

34 block Fourth IDE hard disk/CD-ROM interface

0 = /dev/hdg Master: whole disk (or CD-ROM)
64 = /dev/hdh Slave: whole disk (or CD-ROM)

Partitions are handled the same way as for the first interface (see major number 3).

35 char tclmidi MIDI driver

0 = /dev/midi0 First MIDI port, kernel timed
1 = /dev/midi1 Second MIDI port, kernel timed
2 = /dev/midi2 Third MIDI port, kernel timed
3 = /dev/midi3 Fourth MIDI port, kernel timed
64 = /dev/rmidi0 First MIDI port, untimed
65 = /dev/rmidi1 Second MIDI port, untimed
66 = /dev/rmidi2 Third MIDI port, untimed
67 = /dev/rmidi3 Fourth MIDI port, untimed
128 = /dev/smpte0 First MIDI port, SMPTE timed
129 = /dev/smpte1 Second MIDI port, SMPTE timed
130 = /dev/smpte2 Third MIDI port, SMPTE timed
131 = /dev/smpte3 Fourth MIDI port, SMPTE timed

35 block Slow memory ramdisk

0 = /dev/slram Slow memory ramdisk

36 char Netlink support

0 = /dev/route	Routing, device updates, kernel to user
1 = /dev/skip	enSKIP security cache control
3 = /dev/fwmonitor	Firewall packet copies
16 = /dev/tap0	First Ethertap device
...	
31 = /dev/tap15	16th Ethertap device

36 block MCA ESDI hard disk

0 = /dev/eda	First ESDI disk whole disk
64 = /dev/edb	Second ESDI disk whole disk
...	

Partitions are handled in the same way as IDE disks
(see major number 3).

37 char IDE tape

0 = /dev/ht0	First IDE tape
1 = /dev/ht1	Second IDE tape
...	
128 = /dev/nht0	First IDE tape, no rewind-on-close
129 = /dev/nht1	Second IDE tape, no rewind-on-close
...	

Currently, only one IDE tape drive is supported.

37 block Zorro II ramdisk

0 = /dev/z2ram	Zorro II ramdisk
----------------	------------------

38 char Myricom PCI Myrinet board

0 = /dev/mlanai0	First Myrinet board
1 = /dev/mlanai1	Second Myrinet board
...	

This device is used for status query, board control and "user level packet I/O." This board is also accessible as a standard networking "eth" device.

38 block Reserved for Linux/AP+

39 char ML-16P experimental I/O board

0 = /dev/ml16pa-a0	First card, first analog channel
1 = /dev/ml16pa-a1	First card, second analog channel
...	
15 = /dev/ml16pa-a15	First card, 16th analog channel

16 = /dev/ml16pa-d First card, digital lines
 17 = /dev/ml16pa-c0 First card, first counter/timer
 18 = /dev/ml16pa-c1 First card, second counter/timer
 19 = /dev/ml16pa-c2 First card, third counter/timer
 32 = /dev/ml16pb-a0 Second card, first analog channel
 33 = /dev/ml16pb-a1 Second card, second analog channel
 ...
 47 = /dev/ml16pb-a15 Second card, 16th analog channel
 48 = /dev/ml16pb-d Second card, digital lines
 49 = /dev/ml16pb-c0 Second card, first counter/timer
 50 = /dev/ml16pb-c1 Second card, second counter/timer
 51 = /dev/ml16pb-c2 Second card, third counter/timer

...

39 block Reserved for Linux/AP+

40 char Matrox Meteor frame grabber {2.6}

0 = /dev/mmetgrab Matrox Meteor frame grabber

40 block Syquest EZ135 parallel port removable drive

0 = /dev/eza Parallel EZ135 drive, whole disk

This device is obsolete and will be removed in a future version of Linux. It has been replaced with the parallel port IDE disk driver at major number 45. Partitions are handled in the same way as IDE disks (see major number 3).

41 char Yet Another Micro Monitor

0 = /dev/yamm Yet Another Micro Monitor

41 block MicroSolutions BackPack parallel port CD-ROM

0 = /dev/bpcd BackPack CD-ROM

This device is obsolete and will be removed in a future version of Linux. It has been replaced with the parallel port ATAPI CD-ROM driver at major number 46.

42 char Demo/sample use

42 block Demo/sample use

This number is intended for use in sample code, as well as a general "example" device number. It should never be used for a device driver that is being distributed; either obtain an official number or use the local/experimental range. The sudden addition or removal of a driver with this number should not cause

ill effects to the system (bugs excepted.)

IN PARTICULAR, ANY DISTRIBUTION WHICH CONTAINS A
DEVICE DRIVER USING MAJOR NUMBER 42 IS NONCOMPLIANT.

43 char isdn4linux virtual modem

0 = /dev/ttyl0 First virtual modem

...

63 = /dev/ttyl63 64th virtual modem

43 block Network block devices

0 = /dev/nb0 First network block device

1 = /dev/nb1 Second network block device

...

Network Block Device is somehow similar to loopback devices: If you read from it, it sends packet across network asking server for data. If you write to it, it sends packet telling server to write. It could be used to mounting filesystems over the net, swapping over the net, implementing block device in userland etc.

44 char isdn4linux virtual modem - alternate devices

0 = /dev/cui0 Callout device for ttyl0

...

63 = /dev/cui63 Callout device for ttyl63

44 block Flash Translation Layer (FTL) filesystems

0 = /dev/ftla FTL on first Memory Technology Device

16 = /dev/ftlb FTL on second Memory Technology Device

32 = /dev/ftlc FTL on third Memory Technology Device

...

240 = /dev/ftlp FTL on 16th Memory Technology Device

Partitions are handled in the same way as for IDE disks (see major number 3) except that the partition limit is 15 rather than 63 per disk (same as SCSI.)

45 char isdn4linux ISDN BRI driver

0 = /dev/isdn0 First virtual B channel raw data

...

63 = /dev/isdn63 64th virtual B channel raw data

64 = /dev/isdnctrl0 First channel control/debug

...

127 = /dev/isdnctrl63 64th channel control/debug

		128 = /dev/ipp0	First SyncPPP device
		...	
		191 = /dev/ipp63	64th SyncPPP device
		255 = /dev/isdninfo	ISDN monitor interface
45 block	Parallel port IDE disk devices		
		0 = /dev/pda	First parallel port IDE disk
		16 = /dev/pdb	Second parallel port IDE disk
		32 = /dev/pdc	Third parallel port IDE disk
		48 = /dev/pdd	Fourth parallel port IDE disk
		Partitions are handled in the same way as for IDE disks (see major number 3) except that the partition limit is 15 rather than 63 per disk.	
46 char	Control Rocketport serial card		
		0 = /dev/ttyR0	First Rocketport port
		1 = /dev/ttyR1	Second Rocketport port
		...	
46 block	Parallel port ATAPI CD-ROM devices		
		0 = /dev/pcd0	First parallel port ATAPI CD-ROM
		1 = /dev/pcd1	Second parallel port ATAPI CD-ROM
		2 = /dev/pcd2	Third parallel port ATAPI CD-ROM
		3 = /dev/pcd3	Fourth parallel port ATAPI CD-ROM
47 char	Control Rocketport serial card - alternate devices		
		0 = /dev/cur0	Callout device for ttyR0
		1 = /dev/cur1	Callout device for ttyR1
		...	
47 block	Parallel port ATAPI disk devices		
		0 = /dev/pf0	First parallel port ATAPI disk
		1 = /dev/pf1	Second parallel port ATAPI disk
		2 = /dev/pf2	Third parallel port ATAPI disk
		3 = /dev/pf3	Fourth parallel port ATAPI disk
		This driver is intended for floppy disks and similar devices and hence does not support partitioning.	
48 char	SDL RISCom serial card		
		0 = /dev/ttyL0	First RISCom port
		1 = /dev/ttyL1	Second RISCom port
		...	
48 block	Mylex DAC960 PCI RAID controller; first controller		
		0 = /dev/rd/c0d0	First disk, whole disk

8 = /dev/rd/c0d1 Second disk, whole disk

...

248 = /dev/rd/c0d31 32nd disk, whole disk

For partitions add:

0 = /dev/rd/c?d? Whole disk

1 = /dev/rd/c?d?p1 First partition

...

7 = /dev/rd/c?d?p7 Seventh partition

49 char SDL RISCom serial card - alternate devices

0 = /dev/cul0 Callout device for ttyL0

1 = /dev/cul1 Callout device for ttyL1

...

49 block Mylex DAC960 PCI RAID controller; second controller

0 = /dev/rd/c1d0 First disk, whole disk

8 = /dev/rd/c1d1 Second disk, whole disk

...

248 = /dev/rd/c1d31 32nd disk, whole disk

Partitions are handled as for major 48.

50 char Reserved for GLINT

50 block Mylex DAC960 PCI RAID controller; third controller

0 = /dev/rd/c2d0 First disk, whole disk

8 = /dev/rd/c2d1 Second disk, whole disk

...

248 = /dev/rd/c2d31 32nd disk, whole disk

51 char Baycom radio modem OR Radio Tech BIM-XXX-RS232 radio modem

0 = /dev/bc0 First Baycom radio modem

1 = /dev/bc1 Second Baycom radio modem

...

51 block Mylex DAC960 PCI RAID controller; fourth controller

0 = /dev/rd/c3d0 First disk, whole disk

8 = /dev/rd/c3d1 Second disk, whole disk

...

248 = /dev/rd/c3d31 32nd disk, whole disk

Partitions are handled as for major 48.

52 char Spellcaster DataComm/BRI ISDN card

0 = /dev/dcbri0 First DataComm card

1 = /dev/dcbri1 Second DataComm card
 2 = /dev/dcbri2 Third DataComm card
 3 = /dev/dcbri3 Fourth DataComm card
 52 block Mylex DAC960 PCI RAID controller; fifth controller
 0 = /dev/rd/c4d0 First disk, whole disk
 8 = /dev/rd/c4d1 Second disk, whole disk
 ...
 248 = /dev/rd/c4d31 32nd disk, whole disk

Partitions are handled as for major 48.

53 char BDM interface for remote debugging MC683xx microcontrollers
 0 = /dev/pd_bdm0 PD BDM interface on lp0
 1 = /dev/pd_bdm1 PD BDM interface on lp1
 2 = /dev/pd_bdm2 PD BDM interface on lp2
 4 = /dev/icd_bdm0 ICD BDM interface on lp0
 5 = /dev/icd_bdm1 ICD BDM interface on lp1
 6 = /dev/icd_bdm2 ICD BDM interface on lp2

This device is used for the interfacing to the MC683xx microcontrollers via Background Debug Mode by use of a Parallel Port interface. PD is the Motorola Public Domain Interface and ICD is the commercial interface by P&E.

53 block Mylex DAC960 PCI RAID controller; sixth controller
 0 = /dev/rd/c5d0 First disk, whole disk
 8 = /dev/rd/c5d1 Second disk, whole disk
 ...
 248 = /dev/rd/c5d31 32nd disk, whole disk

Partitions are handled as for major 48.

54 char Electrocardiognosis Holter serial card
 0 = /dev/holter0 First Holter port
 1 = /dev/holter1 Second Holter port
 2 = /dev/holter2 Third Holter port

A custom serial card used by Electrocardiognosis SRL <mseritan@ottonel.pub.ro> to transfer data from Holter 24-hour heart monitoring equipment.

54 block Mylex DAC960 PCI RAID controller; seventh controller
 0 = /dev/rd/c6d0 First disk, whole disk

8 = /dev/rd/c6d1 Second disk, whole disk
...
248 = /dev/rd/c6d31 32nd disk, whole disk

Partitions are handled as for major 48.

55 char DSP56001 digital signal processor
 0 = /dev/dsp56k First DSP56001
55 block Mylex DAC960 PCI RAID controller; eighth controller
 0 = /dev/rd/c7d0 First disk, whole disk
 8 = /dev/rd/c7d1 Second disk, whole disk
 ...
 248 = /dev/rd/c7d31 32nd disk, whole disk

Partitions are handled as for major 48.

56 char Apple Desktop Bus
 0 = /dev/adb ADB bus control

Additional devices will be added to this number, all starting with /dev/adb.

56 block Fifth IDE hard disk/CD-ROM interface
 0 = /dev/hdi Master: whole disk (or CD-ROM)
 64 = /dev/hdj Slave: whole disk (or CD-ROM)

Partitions are handled the same way as for the first interface (see major number 3).

57 char Hayes ESP serial card
 0 = /dev/ttyP0 First ESP port
 1 = /dev/ttyP1 Second ESP port
 ...

57 block Sixth IDE hard disk/CD-ROM interface
 0 = /dev/hdk Master: whole disk (or CD-ROM)
 64 = /dev/hdl Slave: whole disk (or CD-ROM)

Partitions are handled the same way as for the first interface (see major number 3).

58 char Hayes ESP serial card - alternate devices
 0 = /dev/cup0 Callout device for ttyP0
 1 = /dev/cup1 Callout device for ttyP1

- ...
- 58 block Reserved for logical volume manager
- 59 char sf firewall package
- 0 = /dev/firewall Communication with sf kernel module
- 59 block Generic PDA filesystem device
- 0 = /dev/pda0 First PDA device
- 1 = /dev/pda1 Second PDA device
- ...

The pda devices are used to mount filesystems on remote pda's (basically slow handheld machines with proprietary OS's and limited memory and storage running small fs translation drivers) through serial / IRDA / parallel links.

NAMING CONFLICT -- PROPOSED REVISED NAME /dev/rpda0 etc

60-63 char LOCAL/EXPERIMENTAL USE

60-63 block LOCAL/EXPERIMENTAL USE

Allocated for local/experimental use. For devices not assigned official numbers, these ranges should be used in order to avoid conflicting with future assignments.

- 64 char ENskip kernel encryption package
- 0 = /dev/enskip Communication with ENskip kernel module

- 64 block Scramdisk/DriveCrypt encrypted devices
- 0 = /dev/scramdisk/master Master node for ioctl's
- 1 = /dev/scramdisk/1 First encrypted device
- 2 = /dev/scramdisk/2 Second encrypted device
- ...
- 255 = /dev/scramdisk/255 255th encrypted device

The filename of the encrypted container and the passwords are sent via ioctl's (using the sdmount tool) to the master node which then activates them via one of the /dev/scramdisk/x nodes for loop mounting (all handled through the sdmount tool).

Requested by: andy@scramdisklinux.org

- 65 char Sundance "plink" Transputer boards (obsolete, unused)

0 = /dev/plink0	First plink device
1 = /dev/plink1	Second plink device
2 = /dev/plink2	Third plink device
3 = /dev/plink3	Fourth plink device
64 = /dev/rplink0	First plink device, raw
65 = /dev/rplink1	Second plink device, raw
66 = /dev/rplink2	Third plink device, raw
67 = /dev/rplink3	Fourth plink device, raw
128 = /dev/plink0d	First plink device, debug
129 = /dev/plink1d	Second plink device, debug
130 = /dev/plink2d	Third plink device, debug
131 = /dev/plink3d	Fourth plink device, debug
192 = /dev/rplink0d	First plink device, raw, debug
193 = /dev/rplink1d	Second plink device, raw, debug
194 = /dev/rplink2d	Third plink device, raw, debug
195 = /dev/rplink3d	Fourth plink device, raw, debug

This is a commercial driver; contact James Howes
<jth@prosig.demon.co.uk> for information.

65 block SCSI disk devices (16-31)

0 = /dev/sdq	17th SCSI disk whole disk
16 = /dev/sdr	18th SCSI disk whole disk
32 = /dev/sds	19th SCSI disk whole disk
...	
240 = /dev/sdaf	32nd SCSI disk whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

66 char YARC PowerPC PCI coprocessor card

0 = /dev/yppcpci0	First YARC card
1 = /dev/yppcpci1	Second YARC card
...	

66 block SCSI disk devices (32-47)

0 = /dev/sdag	33th SCSI disk whole disk
16 = /dev/sdah	34th SCSI disk whole disk
32 = /dev/sdai	35th SCSI disk whole disk
...	
240 = /dev/sdav	48nd SCSI disk whole disk

Partitions are handled in the same way as for IDE

disks (see major number 3) except that the limit on partitions is 15.

67 char Coda network file system

0 = /dev/cfs0 Coda cache manager

See <http://www.coda.cs.cmu.edu> for information about Coda.

67 block SCSI disk devices (48-63)

0 = /dev/sdaw 49th SCSI disk whole disk

16 = /dev/sdax 50th SCSI disk whole disk

32 = /dev/sday 51st SCSI disk whole disk

...

240 = /dev/sdbl 64th SCSI disk whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

68 char CAPI 2.0 interface

0 = /dev/capi20 Control device

1 = /dev/capi20.00 First CAPI 2.0 application

2 = /dev/capi20.01 Second CAPI 2.0 application

...

20 = /dev/capi20.19 19th CAPI 2.0 application

ISDN CAPI 2.0 driver for use with CAPI 2.0 applications; currently supports the AVM B1 card.

68 block SCSI disk devices (64-79)

0 = /dev/sdbm 65th SCSI disk whole disk

16 = /dev/sdbn 66th SCSI disk whole disk

32 = /dev/sdbo 67th SCSI disk whole disk

...

240 = /dev/sdcb 80th SCSI disk whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

69 char MA16 numeric accelerator card

0 = /dev/ma16 Board memory access

69 block SCSI disk devices (80-95)

0 = /dev/sdcc	81st SCSI disk whole disk
16 = /dev/sdcd	82nd SCSI disk whole disk
32 = /dev/sdce	83th SCSI disk whole disk
...	
240 = /dev/sdcr	96th SCSI disk whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

70 char SpellCaster Protocol Services Interface

0 = /dev/apscfg	Configuration interface
1 = /dev/apsauth	Authentication interface
2 = /dev/apslog	Logging interface
3 = /dev/apsdbg	Debugging interface
64 = /dev/apsisdn	ISDN command interface
65 = /dev/apsasync	Async command interface
128 = /dev/apsmon	Monitor interface

70 block SCSI disk devices (96-111)

0 = /dev/sdcs	97th SCSI disk whole disk
16 = /dev/sdct	98th SCSI disk whole disk
32 = /dev/sdcu	99th SCSI disk whole disk
...	
240 = /dev/sddh	112nd SCSI disk whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

71 char Computone IntelliPort II serial card

0 = /dev/ttyF0	IntelliPort II board 0, port 0
1 = /dev/ttyF1	IntelliPort II board 0, port 1
...	
63 = /dev/ttyF63	IntelliPort II board 0, port 63
64 = /dev/ttyF64	IntelliPort II board 1, port 0
65 = /dev/ttyF65	IntelliPort II board 1, port 1
...	
127 = /dev/ttyF127	IntelliPort II board 1, port 63
128 = /dev/ttyF128	IntelliPort II board 2, port 0
129 = /dev/ttyF129	IntelliPort II board 2, port 1
...	
191 = /dev/ttyF191	IntelliPort II board 2, port 63
192 = /dev/ttyF192	IntelliPort II board 3, port 0

193 = /dev/ttyF193 IntelliPort II board 3, port 1
 ...
 255 = /dev/ttyF255 IntelliPort II board 3, port 63

71 block SCSI disk devices (112-127)

0 = /dev/sddi 113th SCSI disk whole disk
 16 = /dev/sddj 114th SCSI disk whole disk
 32 = /dev/sddk 115th SCSI disk whole disk
 ...
 240 = /dev/sddx 128th SCSI disk whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

72 char Computone IntelliPort II serial card - alternate devices

0 = /dev/cuf0 Callout device for ttyF0
 1 = /dev/cuf1 Callout device for ttyF1
 ...
 63 = /dev/cuf63 Callout device for ttyF63
 64 = /dev/cuf64 Callout device for ttyF64
 65 = /dev/cuf65 Callout device for ttyF65
 ...
 127 = /dev/cuf127 Callout device for ttyF127
 128 = /dev/cuf128 Callout device for ttyF128
 129 = /dev/cuf129 Callout device for ttyF129
 ...
 191 = /dev/cuf191 Callout device for ttyF191
 192 = /dev/cuf192 Callout device for ttyF192
 193 = /dev/cuf193 Callout device for ttyF193
 ...
 255 = /dev/cuf255 Callout device for ttyF255

72 block Compaq Intelligent Drive Array, first controller

0 = /dev/ida/c0d0 First logical drive whole disk
 16 = /dev/ida/c0d1 Second logical drive whole disk
 ...
 240 = /dev/ida/c0d15 16th logical drive whole disk

Partitions are handled the same way as for Mylex DAC960 (see major number 48) except that the limit on partitions is 15.

73 char Computone IntelliPort II serial card - control devices

0 = /dev/ip2ipl0	Loadware device for board 0
1 = /dev/ip2stat0	Status device for board 0
4 = /dev/ip2ipl1	Loadware device for board 1
5 = /dev/ip2stat1	Status device for board 1
8 = /dev/ip2ipl2	Loadware device for board 2
9 = /dev/ip2stat2	Status device for board 2
12 = /dev/ip2ipl3	Loadware device for board 3
13 = /dev/ip2stat3	Status device for board 3

73 block Compaq Intelligent Drive Array, second controller

0 = /dev/ida/c1d0	First logical drive whole disk
16 = /dev/ida/c1d1	Second logical drive whole disk
...	
240 = /dev/ida/c1d15	16th logical drive whole disk

Partitions are handled the same way as for Mylex DAC960 (see major number 48) except that the limit on partitions is 15.

74 char SCI bridge

0 = /dev/SCI/0	SCI device 0
1 = /dev/SCI/1	SCI device 1
...	

Currently for Dolphin Interconnect Solutions' PCI-SCI bridge.

74 block Compaq Intelligent Drive Array, third controller

0 = /dev/ida/c2d0	First logical drive whole disk
16 = /dev/ida/c2d1	Second logical drive whole disk
...	
240 = /dev/ida/c2d15	16th logical drive whole disk

Partitions are handled the same way as for Mylex DAC960 (see major number 48) except that the limit on partitions is 15.

75 char Specialix IO8+ serial card

0 = /dev/ttyW0	First IO8+ port, first card
1 = /dev/ttyW1	Second IO8+ port, first card
...	
8 = /dev/ttyW8	First IO8+ port, second card
...	

75 block Compaq Intelligent Drive Array, fourth controller

 0 = /dev/ida/c3d0 First logical drive whole disk

 16 = /dev/ida/c3d1 Second logical drive whole disk

 ...

 240 = /dev/ida/c3d15 16th logical drive whole disk

Partitions are handled the same way as for Mylex
DAC960 (see major number 48) except that the limit on
partitions is 15.

76 char Specialix IO8+ serial card - alternate devices

 0 = /dev/cuw0 Callout device for ttyW0

 1 = /dev/cuw1 Callout device for ttyW1

 ...

 8 = /dev/cuw8 Callout device for ttyW8

 ...

76 block Compaq Intelligent Drive Array, fifth controller

 0 = /dev/ida/c4d0 First logical drive whole disk

 16 = /dev/ida/c4d1 Second logical drive whole disk

 ...

 240 = /dev/ida/c4d15 16th logical drive whole disk

Partitions are handled the same way as for Mylex
DAC960 (see major number 48) except that the limit on
partitions is 15.

77 char ComScire Quantum Noise Generator

 0 = /dev/qng ComScire Quantum Noise Generator

77 block Compaq Intelligent Drive Array, sixth controller

 0 = /dev/ida/c5d0 First logical drive whole disk

 16 = /dev/ida/c5d1 Second logical drive whole disk

 ...

 240 = /dev/ida/c5d15 16th logical drive whole disk

Partitions are handled the same way as for Mylex
DAC960 (see major number 48) except that the limit on
partitions is 15.

78 char PAM Software's multimodem boards

 0 = /dev/ttyMO First PAM modem

1 = /dev/ttyM1 Second PAM modem

...

78 block Compaq Intelligent Drive Array, seventh controller

0 = /dev/ida/c6d0 First logical drive whole disk

16 = /dev/ida/c6d1 Second logical drive whole disk

...

240 = /dev/ida/c6d15 16th logical drive whole disk

Partitions are handled the same way as for Mylex
DAC960 (see major number 48) except that the limit on
partitions is 15.

79 char PAM Software's multimodem boards - alternate devices

0 = /dev/cum0 Callout device for ttyM0

1 = /dev/cum1 Callout device for ttyM1

...

79 block Compaq Intelligent Drive Array, eighth controller

0 = /dev/ida/c7d0 First logical drive whole disk

16 = /dev/ida/c7d1 Second logical drive whole disk

...

240 = /dev/ida/c715 16th logical drive whole disk

Partitions are handled the same way as for Mylex
DAC960 (see major number 48) except that the limit on
partitions is 15.

80 char Photometrics AT200 CCD camera

0 = /dev/at200 Photometrics AT200 CCD camera

80 block I20 hard disk

0 = /dev/i2o/hda First I20 hard disk, whole disk

16 = /dev/i2o/hdb Second I20 hard disk, whole disk

...

240 = /dev/i2o/hdp 16th I20 hard disk, whole disk

Partitions are handled in the same way as for IDE
disks (see major number 3) except that the limit on
partitions is 15.

81 char video4linux

0 = /dev/video0	Video capture/overlay device
...	
63 = /dev/video63	Video capture/overlay device
64 = /dev/radio0	Radio device
...	
127 = /dev/radio63	Radio device
192 = /dev/vtx0	Teletext device
...	
223 = /dev/vtx31	Teletext device
224 = /dev/vbi0	Vertical blank interrupt
...	
255 = /dev/vbi31	Vertical blank interrupt

81 block I2O hard disk

0 = /dev/i2o/hdq	17th I2O hard disk, whole disk
16 = /dev/i2o/hdr	18th I2O hard disk, whole disk
...	
240 = /dev/i2o/hdaf	32nd I2O hard disk, whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

82 char WiNRADiO communications receiver card

0 = /dev/winradio0	First WiNRADiO card
1 = /dev/winradio1	Second WiNRADiO card
...	

The driver and documentation may be obtained from <http://www.proximity.com.au/~brian/winradio/>

82 block I2O hard disk

0 = /dev/i2o/hdag	33rd I2O hard disk, whole disk
16 = /dev/i2o/hdah	34th I2O hard disk, whole disk
...	
240 = /dev/i2o/hdav	48th I2O hard disk, whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

83 char Matrox mga_vid video driver

0 = /dev/mga_vid0	1st video card
1 = /dev/mga_vid1	2nd video card

2 = /dev/mga_vid2 3rd video card
...
15 = /dev/mga_vid15 16th video card

83 block I2O hard disk

0 = /dev/i2o/hdaw 49th I2O hard disk, whole disk
16 = /dev/i2o/hdax 50th I2O hard disk, whole disk
...
240 = /dev/i2o/hdbl 64th I2O hard disk, whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

84 char Ikon 1011[57] Versatec Greensheet Interface

0 = /dev/ihcp0 First Greensheet port
1 = /dev/ihcp1 Second Greensheet port

84 block I2O hard disk

0 = /dev/i2o/hdbm 65th I2O hard disk, whole disk
16 = /dev/i2o/hdbn 66th I2O hard disk, whole disk
...
240 = /dev/i2o/hdcb 80th I2O hard disk, whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

85 char Linux/SGI shared memory input queue

0 = /dev/shmiq Master shared input queue
1 = /dev/qcntl0 First device pushed
2 = /dev/qcntl1 Second device pushed
...

85 block I2O hard disk

0 = /dev/i2o/hdcc 81st I2O hard disk, whole disk
16 = /dev/i2o/hdcd 82nd I2O hard disk, whole disk
...
240 = /dev/i2o/hdcr 96th I2O hard disk, whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

86 char SCSI media changer
0 = /dev/sch0 First SCSI media changer
1 = /dev/sch1 Second SCSI media changer
...

86 block I2O hard disk
0 = /dev/i2o/hdcs 97th I2O hard disk, whole disk
16 = /dev/i2o/hdct 98th I2O hard disk, whole disk
...
240 = /dev/i2o/hddh 112th I2O hard disk, whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

87 char Sony Control-A1 stereo control bus
0 = /dev/controla0 First device on chain
1 = /dev/controla1 Second device on chain
...

87 block I2O hard disk
0 = /dev/i2o/hddi 113rd I2O hard disk, whole disk
16 = /dev/i2o/hddj 114th I2O hard disk, whole disk
...
240 = /dev/i2o/hddx 128th I2O hard disk, whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

88 char COMX synchronous serial card
0 = /dev/comx0 COMX channel 0
1 = /dev/comx1 COMX channel 1
...

88 block Seventh IDE hard disk/CD-ROM interface
0 = /dev/hdm Master: whole disk (or CD-ROM)
64 = /dev/hdn Slave: whole disk (or CD-ROM)

Partitions are handled the same way as for the first interface (see major number 3).

89 char I2C bus interface
0 = /dev/i2c-0 First I2C adapter

1 = /dev/i2c-1 Second I2C adapter

...

89 block Eighth IDE hard disk/CD-ROM interface

0 = /dev/hdo Master: whole disk (or CD-ROM)

64 = /dev/hdp Slave: whole disk (or CD-ROM)

Partitions are handled the same way as for the first
interface (see major number 3).

90 char Memory Technology Device (RAM, ROM, Flash)

0 = /dev/mtd0 First MTD (rw)

1 = /dev/mtdr0 First MTD (ro)

...

30 = /dev/mtd15 16th MTD (rw)

31 = /dev/mtdr15 16th MTD (ro)

90 block Ninth IDE hard disk/CD-ROM interface

0 = /dev/hdq Master: whole disk (or CD-ROM)

64 = /dev/hdr Slave: whole disk (or CD-ROM)

Partitions are handled the same way as for the first
interface (see major number 3).

91 char CAN-Bus devices

0 = /dev/can0 First CAN-Bus controller

1 = /dev/can1 Second CAN-Bus controller

...

91 block Tenth IDE hard disk/CD-ROM interface

0 = /dev/hds Master: whole disk (or CD-ROM)

64 = /dev/hdt Slave: whole disk (or CD-ROM)

Partitions are handled the same way as for the first
interface (see major number 3).

92 char Reserved for ith Kommunikationstechnik MIC ISDN card

92 block PPDD encrypted disk driver

0 = /dev/ppdd0 First encrypted disk

1 = /dev/ppdd1 Second encrypted disk

...

Partitions are handled in the same way as for IDE

disks (see major number 3) except that the limit on partitions is 15.

- 93 char IBM Smart Capture Card frame grabber {2.6}
- 0 = /dev/iscc0 First Smart Capture Card
 - 1 = /dev/iscc1 Second Smart Capture Card
 - ...
 - 128 = /dev/iscctl0 First Smart Capture Card control
 - 129 = /dev/iscctl1 Second Smart Capture Card control
 - ...
- 93 block NAND Flash Translation Layer filesystem
- 0 = /dev/nftla First NFTL layer
 - 16 = /dev/nftlb Second NFTL layer
 - ...
 - 240 = /dev/nftlp 16th NTF layer
- 94 char miroVIDEO DC10/30 capture/playback device {2.6}
- 0 = /dev/dcxx0 First capture card
 - 1 = /dev/dcxx1 Second capture card
 - ...
- 94 block IBM S/390 DASD block storage
- 0 = /dev/dasda First DASD device, major
 - 1 = /dev/dasda1 First DASD device, block 1
 - 2 = /dev/dasda2 First DASD device, block 2
 - 3 = /dev/dasda3 First DASD device, block 3
 - 4 = /dev/dasdb Second DASD device, major
 - 5 = /dev/dasdb1 Second DASD device, block 1
 - 6 = /dev/dasdb2 Second DASD device, block 2
 - 7 = /dev/dasdb3 Second DASD device, block 3
 - ...
- 95 char IP filter
- 0 = /dev/ipl Filter control device/log file
 - 1 = /dev/ipnat NAT control device/log file
 - 2 = /dev/ipstate State information log file
 - 3 = /dev/ipauth Authentication control device/log file
 - ...
- 96 char Parallel port ATAPI tape devices
- 0 = /dev/pt0 First parallel port ATAPI tape
 - 1 = /dev/pt1 Second parallel port ATAPI tape
 - ...

128 = /dev/npt0 First p.p. ATAPI tape, no rewind
129 = /dev/npt1 Second p.p. ATAPI tape, no rewind
...

96 block Inverse NAND Flash Translation Layer

0 = /dev/inftla First INFTL layer
16 = /dev/inftlb Second INFTL layer
...
240 = /dev/inftlp 16th INFTL layer

97 char Parallel port generic ATAPI interface

0 = /dev/pg0 First parallel port ATAPI device
1 = /dev/pg1 Second parallel port ATAPI device
2 = /dev/pg2 Third parallel port ATAPI device
3 = /dev/pg3 Fourth parallel port ATAPI device

These devices support the same API as the generic SCSI devices.

98 char Control and Measurement Device (comedi)

0 = /dev/comedi0 First comedi device
1 = /dev/comedi1 Second comedi device
...

See <http://stm.lbl.gov/comedi> or <http://www.llp.fu-berlin.de/>.

98 block User-mode virtual block device

0 = /dev/ubda First user-mode block device
16 = /dev/udbb Second user-mode block device
...

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

This device is used by the user-mode virtual kernel port.

99 char Raw parallel ports

0 = /dev/parport0 First parallel port
1 = /dev/parport1 Second parallel port
...

99 block JavaStation flash disk

0 = /dev/jsfd JavaStation flash disk

100 char Telephony for Linux

0 = /dev/phone0 First telephony device
1 = /dev/phone1 Second telephony device
...

101 char Motorola DSP 56xxx board

0 = /dev/mdspstat Status information
1 = /dev/mdsp1 First DSP board I/O controls
...
16 = /dev/mdsp16 16th DSP board I/O controls

101 block AMI HyperDisk RAID controller

0 = /dev/amiraid/ar0 First array whole disk
16 = /dev/amiraid/ar1 Second array whole disk
...
240 = /dev/amiraid/ar15 16th array whole disk

For each device, partitions are added as:

0 = /dev/amiraid/ar? Whole disk
1 = /dev/amiraid/ar?p1 First partition
2 = /dev/amiraid/ar?p2 Second partition
...
15 = /dev/amiraid/ar?p15 15th partition

102 char Philips SAA5249 Teletext signal decoder {2.6}

0 = /dev/tlk0 First Teletext decoder
1 = /dev/tlk1 Second Teletext decoder
2 = /dev/tlk2 Third Teletext decoder
3 = /dev/tlk3 Fourth Teletext decoder

102 block Compressed block device

0 = /dev/cbd/a First compressed block device, whole device
16 = /dev/cbd/b Second compressed block device, whole device
...
240 = /dev/cbd/p 16th compressed block device, whole device

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

103 char Arla network file system

0 = /dev/nnpfs0 First NNPFs device
1 = /dev/nnpfs1 Second NNPFs device

Arla is a free clone of the Andrew File System, AFS.
The NNPFs device gives user mode filesystem implementations a kernel presence for caching and easy mounting. For more information about the project, write to <arla-drinkers@stacken.kth.se> or see <http://www.stacken.kth.se/project/arla/>

103 block Audit device

0 = /dev/audit Audit device

104 char Flash BIOS support

104 block Compaq Next Generation Drive Array, first controller

0 = /dev/cciss/c0d0 First logical drive, whole disk
16 = /dev/cciss/c0d1 Second logical drive, whole disk
...
240 = /dev/cciss/c0d15 16th logical drive, whole disk

Partitions are handled the same way as for Mylex DAC960 (see major number 48) except that the limit on partitions is 15.

105 char Control VS-1000 serial controller

0 = /dev/ttyV0 First VS-1000 port
1 = /dev/ttyV1 Second VS-1000 port
...

105 block Compaq Next Generation Drive Array, second controller

0 = /dev/cciss/c1d0 First logical drive, whole disk
16 = /dev/cciss/c1d1 Second logical drive, whole disk
...
240 = /dev/cciss/c1d15 16th logical drive, whole disk

Partitions are handled the same way as for Mylex DAC960 (see major number 48) except that the limit on partitions is 15.

106 char Control VS-1000 serial controller - alternate devices

0 = /dev/cuv0 First VS-1000 port
1 = /dev/cuv1 Second VS-1000 port
...

106 block Compaq Next Generation Drive Array, third controller

0 = /dev/cciss/c2d0 First logical drive, whole disk
16 = /dev/cciss/c2d1 Second logical drive, whole disk
...
240 = /dev/cciss/c2d15 16th logical drive, whole disk

Partitions are handled the same way as for Mylex
DAC960 (see major number 48) except that the limit on
partitions is 15.

107 char 3Dfx Voodoo Graphics device
0 = /dev/3dfx Primary 3Dfx graphics device

107 block Compaq Next Generation Drive Array, fourth controller
0 = /dev/cciss/c3d0 First logical drive, whole disk
16 = /dev/cciss/c3d1 Second logical drive, whole disk
...
240 = /dev/cciss/c3d15 16th logical drive, whole disk

Partitions are handled the same way as for Mylex
DAC960 (see major number 48) except that the limit on
partitions is 15.

108 char Device independent PPP interface
0 = /dev/ppp Device independent PPP interface

108 block Compaq Next Generation Drive Array, fifth controller
0 = /dev/cciss/c4d0 First logical drive, whole disk
16 = /dev/cciss/c4d1 Second logical drive, whole disk
...
240 = /dev/cciss/c4d15 16th logical drive, whole disk

Partitions are handled the same way as for Mylex
DAC960 (see major number 48) except that the limit on
partitions is 15.

109 char Reserved for logical volume manager

109 block Compaq Next Generation Drive Array, sixth controller
0 = /dev/cciss/c5d0 First logical drive, whole disk
16 = /dev/cciss/c5d1 Second logical drive, whole disk
...
240 = /dev/cciss/c5d15 16th logical drive, whole disk

Partitions are handled the same way as for Mylex

DAC960 (see major number 48) except that the limit on partitions is 15.

110 char miroMEDIA Surround board

0 = /dev/srnd0	First miroMEDIA Surround board
1 = /dev/srnd1	Second miroMEDIA Surround board
...	

110 block Compaq Next Generation Drive Array, seventh controller

0 = /dev/cciss/c6d0	First logical drive, whole disk
16 = /dev/cciss/c6d1	Second logical drive, whole disk
...	
240 = /dev/cciss/c6d15	16th logical drive, whole disk

Partitions are handled the same way as for Mylex DAC960 (see major number 48) except that the limit on partitions is 15.

111 char Philips SAA7146-based audio/video card {2.6}

0 = /dev/av0	First A/V card
1 = /dev/av1	Second A/V card
...	

111 block Compaq Next Generation Drive Array, eighth controller

0 = /dev/cciss/c7d0	First logical drive, whole disk
16 = /dev/cciss/c7d1	Second logical drive, whole disk
...	
240 = /dev/cciss/c7d15	16th logical drive, whole disk

Partitions are handled the same way as for Mylex DAC960 (see major number 48) except that the limit on partitions is 15.

112 char ISI serial card

0 = /dev/ttyM0	First ISI port
1 = /dev/ttyM1	Second ISI port
...	

There is currently a device-naming conflict between these and PAM multimodems (major 78).

112 block IBM iSeries virtual disk

0 = /dev/iseriess/vda	First virtual disk, whole disk
8 = /dev/iseriess/vdb	Second virtual disk, whole disk

...
200 = /dev/iseriess/vdz 26th virtual disk, whole disk
208 = /dev/iseriess/vdaa 27th virtual disk, whole disk
...
248 = /dev/iseriess/vdaf 32nd virtual disk, whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 7.

113 char ISL serial card - alternate devices
0 = /dev/cum0 Callout device for ttyM0
1 = /dev/cum1 Callout device for ttyM1
...

113 block IBM iSeries virtual CD-ROM
0 = /dev/iseriess/vcda First virtual CD-ROM
1 = /dev/iseriess/vcdb Second virtual CD-ROM
...

114 char Picture Elements ISE board
0 = /dev/ise0 First ISE board
1 = /dev/ise1 Second ISE board
...
128 = /dev/isex0 Control node for first ISE board
129 = /dev/isex1 Control node for second ISE board
...

The ISE board is an embedded computer, optimized for image processing. The /dev/iseN nodes are the general I/O access to the board, the /dev/isex0 nodes command nodes used to control the board.

114 block IDE BIOS powered software RAID interfaces such as the Promise Fastrak

0 = /dev/ataraid/d0
1 = /dev/ataraid/d0p1
2 = /dev/ataraid/d0p2
...
16 = /dev/ataraid/d1
17 = /dev/ataraid/d1p1
18 = /dev/ataraid/d1p2

...

255 = /dev/ataraid/d15p15

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

115 char TI link cable devices (115 was formerly the console driver speaker)

0 = /dev/tipar0 Parallel cable on first parallel port

...

7 = /dev/tipar7 Parallel cable on seventh parallel port

8 = /dev/tiser0 Serial cable on first serial port

...

15 = /dev/tiser7 Serial cable on seventh serial port

16 = /dev/tiusb0 First USB cable

...

47 = /dev/tiusb31 32nd USB cable

115 block NetWare (NWFS) Devices (0-255)

The NWFS (NetWare) devices are used to present a collection of NetWare Mirror Groups or NetWare Partitions as a logical storage segment for use in mounting NetWare volumes. A maximum of 256 NetWare volumes can be supported in a single machine.

<http://www.kernel.org/pub/linux/kernel/people/jmerkey/nwfs>

0 = /dev/nwfs/v0 First NetWare (NWFS) Logical Volume

1 = /dev/nwfs/v1 Second NetWare (NWFS) Logical Volume

2 = /dev/nwfs/v2 Third NetWare (NWFS) Logical Volume

...

255 = /dev/nwfs/v255 Last NetWare (NWFS) Logical Volume

116 char Advanced Linux Sound Driver (ALSA)

116 block MicroMemory battery backed RAM adapter (NVRAM)

Supports 16 boards, 15 partitions each.

Requested by neilb at cse.unsw.edu.au.

0 = /dev/umem/d0 Whole of first board

1 = /dev/umem/d0p1 First partition of first board
 2 = /dev/umem/d0p2 Second partition of first board
 15 = /dev/umem/d0p15 15th partition of first board

16 = /dev/umem/d1 Whole of second board
 17 = /dev/umem/d1p1 First partition of second board
 ...
 255 = /dev/umem/d15p15 15th partition of 16th board.

117 char COSA/SRP synchronous serial card

0 = /dev/cosa0c0 1st board, 1st channel
 1 = /dev/cosa0c1 1st board, 2nd channel
 ...
 16 = /dev/cosa1c0 2nd board, 1st channel
 17 = /dev/cosa1c1 2nd board, 2nd channel
 ...

117 block Enterprise Volume Management System (EVMS)

The EVMS driver uses a layered, plug-in model to provide unparalleled flexibility and extensibility in managing storage. This allows for easy expansion or customization of various levels of volume management. Requested by Mark Peloquin (peloquin at us.ibm.com).

Note: EVMS populates and manages all the devnodes in /dev/evms.

<http://sf.net/projects/evms>

0 = /dev/evms/block_device EVMS block device
 1 = /dev/evms/legacyname1 First EVMS legacy device
 2 = /dev/evms/legacyname2 Second EVMS legacy device
 ...
 Both ranges can grow (down or up) until they meet.
 ...
 254 = /dev/evms/EVMSname2 Second EVMS native device
 255 = /dev/evms/EVMSname1 First EVMS native device

Note: legacyname(s) are derived from the normal legacy device names. For example, /dev/hda5 would become /dev/evms/hda5.

118 char IBM Cryptographic Accelerator

0 = /dev/ica Virtual interface to all IBM Crypto Accelerators
1 = /dev/ica0 IBMCA Device 0
2 = /dev/ica1 IBMCA Device 1
...

119 char VMware virtual network control

0 = /dev/vnet0 1st virtual network
1 = /dev/vnet1 2nd virtual network
...

120-127 char LOCAL/EXPERIMENTAL USE

120-127 block LOCAL/EXPERIMENTAL USE

Allocated for local/experimental use. For devices not assigned official numbers, these ranges should be used in order to avoid conflicting with future assignments.

128-135 char Unix98 PTY masters

These devices should not have corresponding device nodes; instead they should be accessed through the /dev/ptmx cloning interface.

128 block SCSI disk devices (128-143)

0 = /dev/sddy 129th SCSI disk whole disk
16 = /dev/sddz 130th SCSI disk whole disk
32 = /dev/sdea 131th SCSI disk whole disk
...
240 = /dev/sden 144th SCSI disk whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

129 block SCSI disk devices (144-159)

0 = /dev/sdeo 145th SCSI disk whole disk
16 = /dev/sdep 146th SCSI disk whole disk
32 = /dev/sdeq 147th SCSI disk whole disk
...
240 = /dev/sdfd 160th SCSI disk whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on

partitions is 15.

130 char (Misc devices)

130 block SCSI disk devices (160-175)

0 = /dev/sdfe 161st SCSI disk whole disk
16 = /dev/sdff 162nd SCSI disk whole disk
32 = /dev/sdfg 163rd SCSI disk whole disk
...
240 = /dev/sdft 176th SCSI disk whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

131 block SCSI disk devices (176-191)

0 = /dev/sdfu 177th SCSI disk whole disk
16 = /dev/sdfv 178th SCSI disk whole disk
32 = /dev/sdfw 179th SCSI disk whole disk
...
240 = /dev/sdgj 192nd SCSI disk whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

132 block SCSI disk devices (192-207)

0 = /dev/sdgk 193rd SCSI disk whole disk
16 = /dev/sdgl 194th SCSI disk whole disk
32 = /dev/sdgm 195th SCSI disk whole disk
...
240 = /dev/sdgz 208th SCSI disk whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

133 block SCSI disk devices (208-223)

0 = /dev/sdha 209th SCSI disk whole disk
16 = /dev/sdhb 210th SCSI disk whole disk
32 = /dev/sdhc 211th SCSI disk whole disk
...

240 = /dev/sdhp 224th SCSI disk whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

134 block SCSI disk devices (224-239)

0 = /dev/sdhq 225th SCSI disk whole disk

16 = /dev/sdhr 226th SCSI disk whole disk

32 = /dev/sdhs 227th SCSI disk whole disk

...

240 = /dev/sdif 240th SCSI disk whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

135 block SCSI disk devices (240-255)

0 = /dev/sdig 241st SCSI disk whole disk

16 = /dev/sdih 242nd SCSI disk whole disk

32 = /dev/sdih 243rd SCSI disk whole disk

...

240 = /dev/sdiv 256th SCSI disk whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

136-143 char Unix98 PTY slaves

0 = /dev/pts/0 First Unix98 pseudo-TTY

1 = /dev/pts/1 Second Unix98 pseudo-TTY

...

These device nodes are automatically generated with the proper permissions and modes by mounting the devpts filesystem onto /dev/pts with the appropriate mount options (distribution dependent, however, on *most* distributions the appropriate options are "mode=0620,gid=<gid of the "tty" group>".)

136 block Mylex DAC960 PCI RAID controller; ninth controller

0 = /dev/rd/c8d0 First disk, whole disk
8 = /dev/rd/c8d1 Second disk, whole disk
...
248 = /dev/rd/c8d31 32nd disk, whole disk

Partitions are handled as for major 48.

137 block Mylex DAC960 PCI RAID controller; tenth controller

0 = /dev/rd/c9d0 First disk, whole disk
8 = /dev/rd/c9d1 Second disk, whole disk
...
248 = /dev/rd/c9d31 32nd disk, whole disk

Partitions are handled as for major 48.

138 block Mylex DAC960 PCI RAID controller; eleventh controller

0 = /dev/rd/c10d0 First disk, whole disk
8 = /dev/rd/c10d1 Second disk, whole disk
...
248 = /dev/rd/c10d31 32nd disk, whole disk

Partitions are handled as for major 48.

139 block Mylex DAC960 PCI RAID controller; twelfth controller

0 = /dev/rd/c11d0 First disk, whole disk
8 = /dev/rd/c11d1 Second disk, whole disk
...
248 = /dev/rd/c11d31 32nd disk, whole disk

Partitions are handled as for major 48.

140 block Mylex DAC960 PCI RAID controller; thirteenth controller

0 = /dev/rd/c12d0 First disk, whole disk
8 = /dev/rd/c12d1 Second disk, whole disk
...
248 = /dev/rd/c12d31 32nd disk, whole disk

Partitions are handled as for major 48.

141 block Mylex DAC960 PCI RAID controller; fourteenth controller

0 = /dev/rd/c13d0 First disk, whole disk
8 = /dev/rd/c13d1 Second disk, whole disk
...
248 = /dev/rd/c13d31 32nd disk, whole disk

Partitions are handled as for major 48.

142 block Mylex DAC960 PCI RAID controller; fifteenth controller
0 = /dev/rd/c14d0 First disk, whole disk
8 = /dev/rd/c14d1 Second disk, whole disk
...
248 = /dev/rd/c14d31 32nd disk, whole disk

Partitions are handled as for major 48.

143 block Mylex DAC960 PCI RAID controller; sixteenth controller
0 = /dev/rd/c15d0 First disk, whole disk
8 = /dev/rd/c15d1 Second disk, whole disk
...
248 = /dev/rd/c15d31 32nd disk, whole disk

Partitions are handled as for major 48.

144 char Encapsulated PPP
0 = /dev/pppox0 First PPP over Ethernet
...
63 = /dev/pppox63 64th PPP over Ethernet

This is primarily used for ADSL.

The SST 5136-DN DeviceNet interface driver has been relocated to major 183 due to an unfortunate conflict.

144 block Expansion Area #1 for more non-device (e.g. NFS) mounts
0 = mounted device 256
255 = mounted device 511

145 char SAM9407-based soundcard
0 = /dev/sam0_mixer
1 = /dev/sam0_sequencer
2 = /dev/sam0_midi00
3 = /dev/sam0_dsp
4 = /dev/sam0_audio
6 = /dev/sam0_sndstat
18 = /dev/sam0_midi01
34 = /dev/sam0_midi02
50 = /dev/sam0_midi03
64 = /dev/sam1_mixer

...
128 = /dev/sam2_mixer
...
192 = /dev/sam3_mixer
...

Device functions match OSS, but offer a number of add-ons, which are sam9407 specific. OSS can be operated simultaneously, taking care of the codec.

145 block Expansion Area #2 for more non-device (e.g. NFS) mounts

0 = mounted device 512
255 = mounted device 767

146 char SYSTRAM SCRAMNet mirrored-memory network

0 = /dev/scramnet0 First SCRAMNet device
1 = /dev/scramnet1 Second SCRAMNet device
...

146 block Expansion Area #3 for more non-device (e.g. NFS) mounts

0 = mounted device 768
255 = mounted device 1023

147 char Aureal Semiconductor Vortex Audio device

0 = /dev/aureal0 First Aureal Vortex
1 = /dev/aureal1 Second Aureal Vortex
...

147 block Distributed Replicated Block Device (DRBD)

0 = /dev/drbd0 First DRBD device
1 = /dev/drbd1 Second DRBD device
...

148 char Technology Concepts serial card

0 = /dev/ttyT0 First TCL port
1 = /dev/ttyT1 Second TCL port
...

149 char Technology Concepts serial card - alternate devices

0 = /dev/cut0 Callout device for ttyT0
1 = /dev/cut0 Callout device for ttyT1
...

150 char Real-Time Linux FIFOs

		0 = /dev/rtf0	First RTLinux FIFO
		1 = /dev/rtf1	Second RTLinux FIFO
		...	
151 char	DPT I2O SmartRaid V controller		
		0 = /dev/dpti0	First DPT I2O adapter
		1 = /dev/dpti1	Second DPT I2O adapter
		...	
152 char	EtherDrive Control Device		
		0 = /dev/etherd/ctl	Connect/Disconnect an EtherDrive
		1 = /dev/etherd/err	Monitor errors
		2 = /dev/etherd/raw	Raw AoE packet monitor
152 block	EtherDrive Block Devices		
		0 = /dev/etherd/0	EtherDrive 0
		...	
		255 = /dev/etherd/255	EtherDrive 255
153 char	SPI Bus Interface (sometimes referred to as MicroWire)		
		0 = /dev/spi0	First SPI device on the bus
		1 = /dev/spi1	Second SPI device on the bus
		...	
		15 = /dev/spi15	Sixteenth SPI device on the bus
153 block	Enhanced Metadisk RAID (EMD) storage units		
		0 = /dev/emd/0	First unit
		1 = /dev/emd/Op1	Partition 1 on First unit
		2 = /dev/emd/Op2	Partition 2 on First unit
		...	
		15 = /dev/emd/Op15	Partition 15 on First unit
		16 = /dev/emd/1	Second unit
		32 = /dev/emd/2	Third unit
		...	
		240 = /dev/emd/15	Sixteenth unit
			Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.
154 char	Specialix RIO serial card		
		0 = /dev/ttySR0	First RIO port
		...	

255 = /dev/ttySR255 256th RIO port

155 char Specialix RIO serial card - alternate devices

0 = /dev/cusr0 Callout device for ttySRO

...

255 = /dev/cusr255 Callout device for ttySR255

156 char Specialix RIO serial card

0 = /dev/ttySR256 257th RIO port

...

255 = /dev/ttySR511 512th RIO port

157 char Specialix RIO serial card - alternate devices

0 = /dev/cusr256 Callout device for ttySR256

...

255 = /dev/cusr511 Callout device for ttySR511

158 char Dialogic GammaLink fax driver

0 = /dev/gfax0 GammaLink channel 0

1 = /dev/gfax1 GammaLink channel 1

...

159 char RESERVED

159 block RESERVED

160 char General Purpose Instrument Bus (GPIB)

0 = /dev/gpib0 First GPIB bus

1 = /dev/gpib1 Second GPIB bus

...

160 block Carmel 8-port SATA Disks on First Controller

0 = /dev/carmel/0 SATA disk 0 whole disk

1 = /dev/carmel/0p1 SATA disk 0 partition 1

...

31 = /dev/carmel/0p31 SATA disk 0 partition 31

32 = /dev/carmel/1 SATA disk 1 whole disk

64 = /dev/carmel/2 SATA disk 2 whole disk

...

224 = /dev/carmel/7 SATA disk 7 whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 31.

161 char IrCOMM devices (IrDA serial/parallel emulation)

0 = /dev/ircomm0 First IrCOMM device

1 = /dev/ircomm1 Second IrCOMM device

...

16 = /dev/irlpt0 First IrLPT device

17 = /dev/irlpt1 Second IrLPT device

...

161 block Carmel 8-port SATA Disks on Second Controller

0 = /dev/carmel/8 SATA disk 8 whole disk

1 = /dev/carmel/8p1 SATA disk 8 partition 1

...

31 = /dev/carmel/8p31 SATA disk 8 partition 31

32 = /dev/carmel/9 SATA disk 9 whole disk

64 = /dev/carmel/10 SATA disk 10 whole disk

...

224 = /dev/carmel/15 SATA disk 15 whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 31.

162 char Raw block device interface

0 = /dev/rawctl Raw I/O control device

1 = /dev/raw/raw1 First raw I/O device

2 = /dev/raw/raw2 Second raw I/O device

...

163 char UNASSIGNED (was Radio Tech BIM-XXX-RS232 radio modem - see 51)

164 char Chase Research AT/PCI-Fast serial card

0 = /dev/ttyCH0 AT/PCI-Fast board 0, port 0

...

15 = /dev/ttyCH15 AT/PCI-Fast board 0, port 15

16 = /dev/ttyCH16 AT/PCI-Fast board 1, port 0

...

31 = /dev/ttyCH31 AT/PCI-Fast board 1, port 15

32 = /dev/ttyCH32 AT/PCI-Fast board 2, port 0

...

47 = /dev/ttyCH47 AT/PCI-Fast board 2, port 15

48 = /dev/ttyCH48 AT/PCI-Fast board 3, port 0

...

		63 = /dev/ttyCH63	AT/PCI-Fast board 3, port 15
165 char	Chase Research AT/PCI-Fast serial card - alternate devices		
		0 = /dev/cuch0	Callout device for ttyCHO
		...	
		63 = /dev/cuch63	Callout device for ttyCH63
166 char	ACM USB modems		
		0 = /dev/ttyACM0	First ACM modem
		1 = /dev/ttyACM1	Second ACM modem
		...	
167 char	ACM USB modems - alternate devices		
		0 = /dev/cuacm0	Callout device for ttyACM0
		1 = /dev/cuacm1	Callout device for ttyACM1
		...	
168 char	Eracom CSA7000 PCI encryption adaptor		
		0 = /dev/ecsa0	First CSA7000
		1 = /dev/ecsa1	Second CSA7000
		...	
169 char	Eracom CSA8000 PCI encryption adaptor		
		0 = /dev/ecsa8-0	First CSA8000
		1 = /dev/ecsa8-1	Second CSA8000
		...	
170 char	AMI MegaRAC remote access controller		
		0 = /dev/megarac0	First MegaRAC card
		1 = /dev/megarac1	Second MegaRAC card
		...	
171 char	Reserved for IEEE 1394 (Firewire)		
172 char	Moxa Intellio serial card		
		0 = /dev/ttyMX0	First Moxa port
		1 = /dev/ttyMX1	Second Moxa port
		...	
		127 = /dev/ttyMX127	128th Moxa port
		128 = /dev/moxactl	Moxa control port
173 char	Moxa Intellio serial card - alternate devices		
		0 = /dev/cumx0	Callout device for ttyMX0

		1 = /dev/cumx1	Callout device for ttyMX1
		...	
		127 = /dev/cumx127	Callout device for ttyMX127
174 char	SmartIO serial card		
		0 = /dev/ttySI0	First SmartIO port
		1 = /dev/ttySI1	Second SmartIO port
		...	
175 char	SmartIO serial card - alternate devices		
		0 = /dev/cusi0	Callout device for ttySI0
		1 = /dev/cusi1	Callout device for ttySI1
		...	
176 char	nCipher nFast PCI crypto accelerator		
		0 = /dev/nfastpci0	First nFast PCI device
		1 = /dev/nfastpci1	First nFast PCI device
		...	
177 char	TI PCILynx memory spaces		
		0 = /dev/pcilynx/aux0	AUX space of first PCILynx card
		...	
		15 = /dev/pcilynx/aux15	AUX space of 16th PCILynx card
		16 = /dev/pcilynx/rom0	ROM space of first PCILynx card
		...	
		31 = /dev/pcilynx/rom15	ROM space of 16th PCILynx card
		32 = /dev/pcilynx/ram0	RAM space of first PCILynx card
		...	
		47 = /dev/pcilynx/ram15	RAM space of 16th PCILynx card
178 char	Giganet cLAN1xxx virtual interface adapter		
		0 = /dev/clanvi0	First cLAN adapter
		1 = /dev/clanvi1	Second cLAN adapter
		...	
179 char	CCube DVXChip-based PCI products		
		0 = /dev/dvxirq0	First DVX device
		1 = /dev/dvxirq1	Second DVX device
		...	
180 char	USB devices		
		0 = /dev/usb/lp0	First USB printer
		...	
		15 = /dev/usb/lp15	16th USB printer

48 = /dev/usb/scanner0 First USB scanner
 ...
 63 = /dev/usb/scanner15 16th USB scanner
 64 = /dev/usb/rio500 Diamond Rio 500
 65 = /dev/usb/usblcd USBLCD Interface (info@usblcd.de)
 66 = /dev/usb/cpad0 Synaptics cPad (mouse/LCD)
 96 = /dev/usb/hiddev0 1st USB HID device
 ...
 111 = /dev/usb/hiddev15 16th USB HID device
 112 = /dev/usb/auer0 1st auerswald ISDN device
 ...
 127 = /dev/usb/auer15 16th auerswald ISDN device
 128 = /dev/usb/brlvgr0 First Braille Voyager device
 ...
 131 = /dev/usb/brlvgr3 Fourth Braille Voyager device
 132 = /dev/usb/idmouseID Mouse (fingerprint scanner) device
 133 = /dev/usb/sisusbvga1 First SiSUSB VGA device
 ...
 140 = /dev/usb/sisusbvga8 Eighth SiSUSB VGA device
 144 = /dev/usb/lcd USB LCD device
 160 = /dev/usb/legousbtower0 1st USB Legotower device
 ...
 175 = /dev/usb/legousbtower15 16th USB Legotower device
 240 = /dev/usb/dabus0 First dausb device
 ...
 243 = /dev/usb/dabus3 Fourth dabus device

180 block USB block devices

0 = /dev/uba First USB block device
 8 = /dev/ubb Second USB block device
 16 = /dev/ubc Third USB block device
 ...

181 char Conrad Electronic parallel port radio clocks

0 = /dev/pcfclock0 First Conrad radio clock
 1 = /dev/pcfclock1 Second Conrad radio clock
 ...

182 char Picture Elements THR2 binarizer

0 = /dev/pethr0 First THR2 board
 1 = /dev/pethr1 Second THR2 board
 ...

183 char SST 5136-DN DeviceNet interface

0 = /dev/ss5136dn0 First DeviceNet interface
1 = /dev/ss5136dn1 Second DeviceNet interface
...

This device used to be assigned to major number 144.
It had to be moved due to an unfortunate conflict.

184 char Picture Elements' video simulator/sender

0 = /dev/pevss0 First sender board
1 = /dev/pevss1 Second sender board
...

185 char InterMezzo high availability file system

0 = /dev/intermezzo0 First cache manager
1 = /dev/intermezzo1 Second cache manager
...

See <http://www.inter-mezzo.org/> for more information.

186 char Object-based storage control device

0 = /dev/obd0 First obd control device
1 = /dev/obd1 Second obd control device
...

See <ftp://ftp.lustre.org/pub/obd> for code and information.

187 char DESkey hardware encryption device

0 = /dev/deskey0 First DES key
1 = /dev/deskey1 Second DES key
...

188 char USB serial converters

0 = /dev/ttyUSB0 First USB serial converter
1 = /dev/ttyUSB1 Second USB serial converter
...

189 char USB serial converters - alternate devices

0 = /dev/cuusb0 Callout device for ttyUSB0
1 = /dev/cuusb1 Callout device for ttyUSB1
...

190 char Kansas City tracker/tuner card

0 = /dev/kctt0 First KCT/T card
1 = /dev/kctt1 Second KCT/T card

...

191 char Reserved for PCMCIA

192 char Kernel profiling interface

 0 = /dev/profile Profiling control device

 1 = /dev/profile0 Profiling device for CPU 0

 2 = /dev/profile1 Profiling device for CPU 1

 ...

193 char Kernel event-tracing interface

 0 = /dev/trace Tracing control device

 1 = /dev/trace0 Tracing device for CPU 0

 2 = /dev/trace1 Tracing device for CPU 1

 ...

194 char linVideoStreams (LIVS)

 0 = /dev/mvideo/status0 Video compression status

 1 = /dev/mvideo/stream0 Video stream

 2 = /dev/mvideo/frame0 Single compressed frame

 3 = /dev/mvideo/rawframe0 Raw uncompressed frame

 4 = /dev/mvideo/codec0 Direct codec access

 5 = /dev/mvideo/video4linux0 Video4Linux compatibility

 16 = /dev/mvideo/status1 Second device

 ...

 32 = /dev/mvideo/status2 Third device

 ...

 ...

 240 = /dev/mvideo/status15 16th device

 ...

195 char Nvidia graphics devices

 0 = /dev/nvidia0 First Nvidia card

 1 = /dev/nvidia1 Second Nvidia card

 ...

 255 = /dev/nvidiactl Nvidia card control device

196 char Tormenta T1 card

 0 = /dev/tor/0 Master control channel for all cards

 1 = /dev/tor/1 First DS0

 2 = /dev/tor/2 Second DS0

 ...

 48 = /dev/tor/48 48th DS0

		49 = /dev/tor/49	First pseudo-channel
		50 = /dev/tor/50	Second pseudo-channel
		...	
197 char	OpenTNF tracing facility		
		0 = /dev/tnf/t0	Trace 0 data extraction
		1 = /dev/tnf/t1	Trace 1 data extraction
		...	
		128 = /dev/tnf/status	Tracing facility status
		130 = /dev/tnf/trace	Tracing device
198 char	Total Impact TPMP2 quad coprocessor PCI card		
		0 = /dev/tpmp2/0	First card
		1 = /dev/tpmp2/1	Second card
		...	
199 char	Veritas volume manager (VxVM) volumes		
		0 = /dev/vx/rdisk/*/	First volume
		1 = /dev/vx/rdisk/*/	Second volume
		...	
199 block	Veritas volume manager (VxVM) volumes		
		0 = /dev/vx/dsk/*/	First volume
		1 = /dev/vx/dsk/*/	Second volume
		...	
		The namespace in these directories is maintained by the user space VxVM software.	
200 char	Veritas VxVM configuration interface		
		0 = /dev/vx/config	Configuration access node
		1 = /dev/vx/trace	Volume i/o trace access node
		2 = /dev/vx/ioid	Volume i/o daemon access node
		3 = /dev/vx/info	Volume information access node
		4 = /dev/vx/task	Volume tasks access node
		5 = /dev/vx/taskmon	Volume tasks monitor daemon
201 char	Veritas VxVM dynamic multipathing driver		
		0 = /dev/vx/rdmp/*	First multipath device
		1 = /dev/vx/rdmp/*	Second multipath device
		...	
201 block	Veritas VxVM dynamic multipathing driver		
		0 = /dev/vx/dmp/*	First multipath device
		1 = /dev/vx/dmp/*	Second multipath device

...

The namespace in these directories is maintained by the user space VxVM software.

202 char CPU model-specific registers

0 = /dev/cpu/0/msr	MSRs on CPU 0
1 = /dev/cpu/1/msr	MSRs on CPU 1
...	

202 block Xen Virtual Block Device

0 = /dev/xvda	First Xen VBD whole disk
16 = /dev/xvdb	Second Xen VBD whole disk
32 = /dev/xvdc	Third Xen VBD whole disk
...	
240 = /dev/xvdp	Sixteenth Xen VBD whole disk

Partitions are handled in the same way as for IDE disks (see major number 3) except that the limit on partitions is 15.

203 char CPU CPUID information

0 = /dev/cpu/0/cpuid	CPUID on CPU 0
1 = /dev/cpu/1/cpuid	CPUID on CPU 1
...	

204 char Low-density serial ports

0 = /dev/ttyLU0	LinkUp Systems L72xx UART - port 0
1 = /dev/ttyLU1	LinkUp Systems L72xx UART - port 1
2 = /dev/ttyLU2	LinkUp Systems L72xx UART - port 2
3 = /dev/ttyLU3	LinkUp Systems L72xx UART - port 3
4 = /dev/ttyFB0	Intel Footbridge (ARM)
5 = /dev/ttySA0	StrongARM builtin serial port 0
6 = /dev/ttySA1	StrongARM builtin serial port 1
7 = /dev/ttySA2	StrongARM builtin serial port 2
8 = /dev/ttySC0	SCI serial port (SuperH) - port 0
9 = /dev/ttySC1	SCI serial port (SuperH) - port 1
10 = /dev/ttySC2	SCI serial port (SuperH) - port 2
11 = /dev/ttySC3	SCI serial port (SuperH) - port 3
12 = /dev/ttyFW0	Firmware console - port 0
13 = /dev/ttyFW1	Firmware console - port 1
14 = /dev/ttyFW2	Firmware console - port 2
15 = /dev/ttyFW3	Firmware console - port 3
16 = /dev/ttyAM0	ARM "AMBA" serial port 0

...	
31 = /dev/ttyAM15	ARM "AMBA" serial port 15
32 = /dev/ttyDB0	DataBooster serial port 0
...	
39 = /dev/ttyDB7	DataBooster serial port 7
40 = /dev/ttySG0	SGI Altix console port
41 = /dev/ttySMX0	Motorola i.MX - port 0
42 = /dev/ttySMX1	Motorola i.MX - port 1
43 = /dev/ttySMX2	Motorola i.MX - port 2
44 = /dev/ttyMM0	Marvell MPSC - port 0
45 = /dev/ttyMM1	Marvell MPSC - port 1
46 = /dev/ttyCPM0	PPC CPM (SCC or SMC) - port 0
...	
47 = /dev/ttyCPM5	PPC CPM (SCC or SMC) - port 5
50 = /dev/ttyIOC0	Altix serial card
...	
81 = /dev/ttyIOC31	Altix serial card
82 = /dev/ttyVR0	NEC VR4100 series SIU
83 = /dev/ttyVR1	NEC VR4100 series DSU
84 = /dev/ttyIOC84	Altix ioc4 serial card
...	
115 = /dev/ttyIOC115	Altix ioc4 serial card
116 = /dev/ttySIOC0	Altix ioc3 serial card
...	
147 = /dev/ttySIOC31	Altix ioc3 serial card
148 = /dev/ttyPSC0	PPC PSC - port 0
...	
153 = /dev/ttyPSC5	PPC PSC - port 5
154 = /dev/ttyAT0	ATMEL serial port 0
...	
169 = /dev/ttyAT15	ATMEL serial port 15
170 = /dev/ttyNX0	Hilscher netX serial port 0
...	
185 = /dev/ttyNX15	Hilscher netX serial port 15
186 = /dev/ttyJ0	JTAG1 DCC protocol based serial port emulation
187 = /dev/ttyULO	Xilinx uartlite - port 0
...	
190 = /dev/ttyUL3	Xilinx uartlite - port 3
191 = /dev/xvc0	Xen virtual console - port 0

205 char Low-density serial ports (alternate device)

0 = /dev/culu0	Callout device for ttyLU0
1 = /dev/culu1	Callout device for ttyLU1
2 = /dev/culu2	Callout device for ttyLU2

3 = /dev/culu3	Callout device for ttyLU3
4 = /dev/cufb0	Callout device for ttyFB0
5 = /dev/cusa0	Callout device for ttySA0
6 = /dev/cusa1	Callout device for ttySA1
7 = /dev/cusa2	Callout device for ttySA2
8 = /dev/cusc0	Callout device for ttySC0
9 = /dev/cusc1	Callout device for ttySC1
10 = /dev/cusc2	Callout device for ttySC2
11 = /dev/cusc3	Callout device for ttySC3
12 = /dev/cufw0	Callout device for ttyFW0
13 = /dev/cufw1	Callout device for ttyFW1
14 = /dev/cufw2	Callout device for ttyFW2
15 = /dev/cufw3	Callout device for ttyFW3
16 = /dev/cuam0	Callout device for ttyAM0
...	
31 = /dev/cuam15	Callout device for ttyAM15
32 = /dev/cudb0	Callout device for ttyDB0
...	
39 = /dev/cudb7	Callout device for ttyDB7
40 = /dev/cusg0	Callout device for ttySG0
41 = /dev/ttycusmx0	Callout device for ttySMX0
42 = /dev/ttycusmx1	Callout device for ttySMX1
43 = /dev/ttycusmx2	Callout device for ttySMX2
46 = /dev/cucpm0	Callout device for ttyCPM0
...	
49 = /dev/cucpm5	Callout device for ttyCPM5
50 = /dev/cuioc40	Callout device for ttyIOC40
...	
81 = /dev/cuioc431	Callout device for ttyIOC431
82 = /dev/cuvr0	Callout device for ttyVR0
83 = /dev/cuvr1	Callout device for ttyVR1

206 char OnStream SC-x0 tape devices

0 = /dev/osst0	First OnStream SCSI tape, mode 0
1 = /dev/osst1	Second OnStream SCSI tape, mode 0
...	
32 = /dev/osst0l	First OnStream SCSI tape, mode 1
33 = /dev/osst1l	Second OnStream SCSI tape, mode 1
...	
64 = /dev/osst0m	First OnStream SCSI tape, mode 2
65 = /dev/osst1m	Second OnStream SCSI tape, mode 2
...	
96 = /dev/osst0a	First OnStream SCSI tape, mode 3

97 = /dev/osst1a	Second OnStream SCSI tape, mode 3
...	
128 = /dev/nosst0	No rewind version of /dev/osst0
129 = /dev/nosst1	No rewind version of /dev/osst1
...	
160 = /dev/nosst0l	No rewind version of /dev/osst0l
161 = /dev/nosst1l	No rewind version of /dev/osst1l
...	
192 = /dev/nosst0m	No rewind version of /dev/osst0m
193 = /dev/nosst1m	No rewind version of /dev/osst1m
...	
224 = /dev/nosst0a	No rewind version of /dev/osst0a
225 = /dev/nosst1a	No rewind version of /dev/osst1a
...	

The OnStream SC-x0 SCSI tapes do not support the standard SCSI SASD command set and therefore need their own driver "osst". Note that the IDE, USB (and maybe ParPort) versions may be driven via ide-scsi or usb-storage SCSI emulation and this osst device and driver as well. The ADR-x0 drives are QIC-157 compliant and don't need osst.

207 char Compaq ProLiant health feature indicate

0 = /dev/cpqhealth/cpqw	Redirector interface
1 = /dev/cpqhealth/crom	EISA CROM
2 = /dev/cpqhealth/cdt	Data Table
3 = /dev/cpqhealth/cevt	Event Log
4 = /dev/cpqhealth/casr	Automatic Server Recovery
5 = /dev/cpqhealth/cecc	ECC Memory
6 = /dev/cpqhealth/cmca	Machine Check Architecture
7 = /dev/cpqhealth/ccsm	Deprecated CDT
8 = /dev/cpqhealth/cnmi	NMI Handling
9 = /dev/cpqhealth/css	Sideshow Management
10 = /dev/cpqhealth/cram	CMOS interface
11 = /dev/cpqhealth/cpci	PCI IRQ interface

208 char User space serial ports

0 = /dev/ttyU0	First user space serial port
1 = /dev/ttyU1	Second user space serial port
...	

209 char User space serial ports (alternate devices)

0 = /dev/cuu0	Callout device for ttyU0
---------------	--------------------------

1 = /dev/cuu1 Callout device for ttyU1

...

210 char SBE, Inc. sync/async serial card

0 = /dev/sbei/wxcfg0	Configuration device for board 0
1 = /dev/sbei/dld0	Download device for board 0
2 = /dev/sbei/wan00	WAN device, port 0, board 0
3 = /dev/sbei/wan01	WAN device, port 1, board 0
4 = /dev/sbei/wan02	WAN device, port 2, board 0
5 = /dev/sbei/wan03	WAN device, port 3, board 0
6 = /dev/sbei/wanc00	WAN clone device, port 0, board 0
7 = /dev/sbei/wanc01	WAN clone device, port 1, board 0
8 = /dev/sbei/wanc02	WAN clone device, port 2, board 0
9 = /dev/sbei/wanc03	WAN clone device, port 3, board 0
10 = /dev/sbei/wxcfg1	Configuration device for board 1
11 = /dev/sbei/dld1	Download device for board 1
12 = /dev/sbei/wan10	WAN device, port 0, board 1
13 = /dev/sbei/wan11	WAN device, port 1, board 1
14 = /dev/sbei/wan12	WAN device, port 2, board 1
15 = /dev/sbei/wan13	WAN device, port 3, board 1
16 = /dev/sbei/wanc10	WAN clone device, port 0, board 1
17 = /dev/sbei/wanc11	WAN clone device, port 1, board 1
18 = /dev/sbei/wanc12	WAN clone device, port 2, board 1
19 = /dev/sbei/wanc13	WAN clone device, port 3, board 1

...

Yes, each board is really spaced 10 (decimal) apart.

211 char Addinun CPCI1500 digital I/O card

0 = /dev/addinum/cpci1500/0	First CPCI1500 card
1 = /dev/addinum/cpci1500/1	Second CPCI1500 card

...

212 char LinuxTV.org DVB driver subsystem

0 = /dev/dvb/adapter0/video0	first video decoder of first card
1 = /dev/dvb/adapter0/audio0	first audio decoder of first card
2 = /dev/dvb/adapter0/sec0	(obsolete/unused)
3 = /dev/dvb/adapter0/frontend0	first frontend device of first card
4 = /dev/dvb/adapter0/demux0	first demux device of first card
5 = /dev/dvb/adapter0/dvr0	first digital video recoder device of first card
6 = /dev/dvb/adapter0/ca0	first common access port of first card
7 = /dev/dvb/adapter0/net0	first network device of first card
8 = /dev/dvb/adapter0/osd0	first on-screen-display device of first card

		9 = /dev/dvb/adapater0/video1	second video decoder of first card
		...	
		64 = /dev/dvb/adapater1/video0	first video decoder of second card
		...	
		128 = /dev/dvb/adapater2/video0	first video decoder of third card
		...	
		196 = /dev/dvb/adapater3/video0	first video decoder of fourth card
216 char	Bluetooth RFCOMM TTY devices		
		0 = /dev/rfcomm0	First Bluetooth RFCOMM TTY device
		1 = /dev/rfcomm1	Second Bluetooth RFCOMM TTY device
		...	
217 char	Bluetooth RFCOMM TTY devices (alternate devices)		
		0 = /dev/curf0	Callout device for rfcomm0
		1 = /dev/curf1	Callout device for rfcomm1
		...	
218 char	The Logical Company bus Unibus/Qbus adapters		
		0 = /dev/logicalco/bci/0	First bus adapter
		1 = /dev/logicalco/bci/1	First bus adapter
		...	
219 char	The Logical Company DCI-1300 digital I/O card		
		0 = /dev/logicalco/dci1300/0	First DCI-1300 card
		1 = /dev/logicalco/dci1300/1	Second DCI-1300 card
		...	
220 char	Myricom Myrinet "GM" board		
		0 = /dev/myricom/gm0	First Myrinet GM board
		1 = /dev/myricom/gmp0	First board "root access"
		2 = /dev/myricom/gm1	Second Myrinet GM board
		3 = /dev/myricom/gmp1	Second board "root access"
		...	
221 char	VME bus		
		0 = /dev/bus/vme/m0	First master image
		1 = /dev/bus/vme/m1	Second master image
		2 = /dev/bus/vme/m2	Third master image
		3 = /dev/bus/vme/m3	Fourth master image
		4 = /dev/bus/vme/s0	First slave image
		5 = /dev/bus/vme/s1	Second slave image
		6 = /dev/bus/vme/s2	Third slave image
		7 = /dev/bus/vme/s3	Fourth slave image

8 = /dev/bus/vme/ctl Control

It is expected that all VME bus drivers will use the same interface. For interface documentation see <http://www.vmelinux.org/>.

224 char	A2232 serial card		
	0 = /dev/tty0		First A2232 port
	1 = /dev/tty1		Second A2232 port
	...		
225 char	A2232 serial card (alternate devices)		
	0 = /dev/cuy0		Callout device for ttyY0
	1 = /dev/cuy1		Callout device for ttyY1
	...		
226 char	Direct Rendering Infrastructure (DRI)		
	0 = /dev/dri/card0		First graphics card
	1 = /dev/dri/card1		Second graphics card
	...		
227 char	IBM 3270 terminal Unix tty access		
	1 = /dev/3270/tty1		First 3270 terminal
	2 = /dev/3270/tty2		Seconds 3270 terminal
	...		
228 char	IBM 3270 terminal block-mode access		
	0 = /dev/3270/tub		Controlling interface
	1 = /dev/3270/tub1		First 3270 terminal
	2 = /dev/3270/tub2		Second 3270 terminal
	...		
229 char	IBM iSeries/pSeries virtual console		
	0 = /dev/hvc0		First console port
	1 = /dev/hvc1		Second console port
	...		
230 char	IBM iSeries virtual tape		
	0 = /dev/iseres/vt0		First virtual tape, mode 0
	1 = /dev/iseres/vt1		Second virtual tape, mode 0
	...		
	32 = /dev/iseres/vt0l		First virtual tape, mode 1
	33 = /dev/iseres/vt1l		Second virtual tape, mode 1
	...		

64 = /dev/iseriess/vt0m First virtual tape, mode 2
65 = /dev/iseriess/vt1m Second virtual tape, mode 2
...
96 = /dev/iseriess/vt0a First virtual tape, mode 3
97 = /dev/iseriess/vt1a Second virtual tape, mode 3
...
128 = /dev/iseriess/nvt0 First virtual tape, mode 0, no rewind
129 = /dev/iseriess/nvt1 Second virtual tape, mode 0, no rewind
...
160 = /dev/iseriess/nvt0l First virtual tape, mode 1, no rewind
161 = /dev/iseriess/nvt1l Second virtual tape, mode 1, no rewind
...
192 = /dev/iseriess/nvt0m First virtual tape, mode 2, no rewind
193 = /dev/iseriess/nvt1m Second virtual tape, mode 2, no rewind
...
224 = /dev/iseriess/nvt0a First virtual tape, mode 3, no rewind
225 = /dev/iseriess/nvt1a Second virtual tape, mode 3, no rewind
...

"No rewind" refers to the omission of the default automatic rewind on device close. The MTREW or MTOFFL ioctl()'s can be used to rewind the tape regardless of the device used to access it.

231 char InfiniBand

0 = /dev/infiniband/umad0
1 = /dev/infiniband/umad1
...
63 = /dev/infiniband/umad63 63rd InfiniBandMad device
64 = /dev/infiniband/issm0 First InfiniBand IsSM device
65 = /dev/infiniband/issm1 Second InfiniBand IsSM device
...
127 = /dev/infiniband/issm63 63rd InfiniBand IsSM device
128 = /dev/infiniband/uverbs0 First InfiniBand verbs device
129 = /dev/infiniband/uverbs1 Second InfiniBand verbs device
...
159 = /dev/infiniband/uverbs31 31st InfiniBand verbs device

232 char Biometric Devices

0 = /dev/biometric/sensor0/fingerprint first fingerprint sensor on first device
1 = /dev/biometric/sensor0/iris first iris sensor on first device
2 = /dev/biometric/sensor0/retina first retina sensor on first device
3 = /dev/biometric/sensor0/voiceprint first voiceprint sensor on first device
4 = /dev/biometric/sensor0/facial first facial sensor on first device

5 = /dev/biometric/sensor0/hand first hand sensor on first device
 ...
 10 = /dev/biometric/sensor1/fingerprint first fingerprint sensor on second
 device
 ...
 20 = /dev/biometric/sensor2/fingerprint first fingerprint sensor on third device
 ...

233 char PathScale InfiniPath interconnect

0 = /dev/ipath Primary device for programs (any unit)
 1 = /dev/ipath0 Access specifically to unit 0
 2 = /dev/ipath1 Access specifically to unit 1
 ...
 4 = /dev/ipath3 Access specifically to unit 3
 129 = /dev/ipath_sma Device used by Subnet Management Agent
 130 = /dev/ipath_diag Device used by diagnostics programs

234-239 UNASSIGNED

240-254 char LOCAL/EXPERIMENTAL USE

240-254 block LOCAL/EXPERIMENTAL USE

Allocated for local/experimental use. For devices not
 assigned official numbers, these ranges should be
 used in order to avoid conflicting with future assignments.

255 char RESERVED

255 block RESERVED

This major is reserved to assist the expansion to a
 larger number space. No device nodes with this major
 should ever be created on the filesystem.

(This is probably not true anymore, but I'll leave it
 for now /Torben)

---LARGE MAJORS!!!!!--

256 char Equinox SST multi-port serial boards

0 = /dev/ttyEQ0 First serial port on first Equinox SST board
 127 = /dev/ttyEQ127 Last serial port on first Equinox SST board
 128 = /dev/ttyEQ128 First serial port on second Equinox SST board
 ...
 1027 = /dev/ttyEQ1027 Last serial port on eighth Equinox SST board

256 block Resident Flash Disk Flash Translation Layer

0 = /dev/rfda	First RFD FTL layer
16 = /dev/rfdb	Second RFD FTL layer
...	
240 = /dev/rfdp	16th RFD FTL layer

257 char Phoenix Technologies Cryptographic Services Driver

0 = /dev/ptlsec	Crypto Services Driver
-----------------	------------------------

257 block SSFDC Flash Translation Layer filesystem

0 = /dev/ssfdca	First SSFDC layer
8 = /dev/ssfdcb	Second SSFDC layer
16 = /dev/ssfdcc	Third SSFDC layer
24 = /dev/ssfdcd	4th SSFDC layer
32 = /dev/ssfdce	5th SSFDC layer
40 = /dev/ssfdcf	6th SSFDC layer
48 = /dev/ssfdcg	7th SSFDC layer
56 = /dev/ssfdch	8th SSFDC layer

258 block ROM/Flash read-only translation layer

0 = /dev/blockrom0	First ROM card's translation layer interface
1 = /dev/blockrom0	Second ROM card's translation layer interface