

sysfs-class-mtd..txt

What: /sys/class/mtd/  
Date: April 2009  
KernelVersion: 2.6.29  
Contact: linux-mtd@lists.infradead.org  
Description: The mtd/ class subdirectory belongs to the MTD subsystem (MTD core).

What: /sys/class/mtd/mtdX/  
Date: April 2009  
KernelVersion: 2.6.29  
Contact: linux-mtd@lists.infradead.org  
Description: The /sys/class/mtd/mtd{0,1,2,3,...} directories correspond to each /dev/mtdX character device. These may represent physical/simulated flash devices, partitions on a flash device, or concatenated flash devices. They exist regardless of whether CONFIG\_MTD\_CHAR is actually enabled.

What: /sys/class/mtd/mtdXro/  
Date: April 2009  
KernelVersion: 2.6.29  
Contact: linux-mtd@lists.infradead.org  
Description: These directories provide the corresponding read-only device nodes for /sys/class/mtd/mtdX/. They are only created (for the benefit of udev) if CONFIG\_MTD\_CHAR is enabled.

What: /sys/class/mtd/mtdX/dev  
Date: April 2009  
KernelVersion: 2.6.29  
Contact: linux-mtd@lists.infradead.org  
Description: Major and minor numbers of the character device corresponding to this MTD device (in <major>:<minor> format). This is the read-write device so <minor> will be even.

What: /sys/class/mtd/mtdXro/dev  
Date: April 2009  
KernelVersion: 2.6.29  
Contact: linux-mtd@lists.infradead.org  
Description: Major and minor numbers of the character device corresponding to the read-only variant of this MTD device (in <major>:<minor> format). In this case <minor> will be odd.

What: /sys/class/mtd/mtdX/erasesize  
Date: April 2009  
KernelVersion: 2.6.29  
Contact: linux-mtd@lists.infradead.org  
Description: "Major" erase size for the device. If numeraseregions is zero, this is the eraseblock size for the entire device. Otherwise, the MEMGETREGIONCOUNT/MEMGETREGIONINFO ioctls can be used to determine the actual eraseblock layout.

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What: /sys/class/mtd/mtdX/flags  
Date: April 2009  
KernelVersion: 2.6.29  
Contact: linux-mtd@lists.infradead.org  
Description: A hexadecimal value representing the device flags, ORed together:

0x0400: MTD\_WRITEABLE - device is writable  
0x0800: MTD\_BIT\_WRITEABLE - single bits can be flipped  
0x1000: MTD\_NO\_ERASE - no erase necessary  
0x2000: MTD\_POWERUP\_LOCK - always locked after reset

What: /sys/class/mtd/mtdX/name  
Date: April 2009  
KernelVersion: 2.6.29  
Contact: linux-mtd@lists.infradead.org  
Description: A human-readable ASCII name for the device or partition. This will match the name in /proc/mtd .

What: /sys/class/mtd/mtdX/numeraseregions  
Date: April 2009  
KernelVersion: 2.6.29  
Contact: linux-mtd@lists.infradead.org  
Description: For devices that have variable eraseblock sizes, this provides the total number of erase regions. Otherwise, it will read back as zero.

What: /sys/class/mtd/mtdX/oobsize  
Date: April 2009  
KernelVersion: 2.6.29  
Contact: linux-mtd@lists.infradead.org  
Description: Number of OOB bytes per page.

What: /sys/class/mtd/mtdX/size  
Date: April 2009  
KernelVersion: 2.6.29  
Contact: linux-mtd@lists.infradead.org  
Description: Total size of the device/partition, in bytes.

What: /sys/class/mtd/mtdX/type  
Date: April 2009  
KernelVersion: 2.6.29  
Contact: linux-mtd@lists.infradead.org  
Description: One of the following ASCII strings, representing the device type:  
  
absent, ram, rom, nor, nand, dataflash, ubi, unknown

What: /sys/class/mtd/mtdX/writesize  
Date: April 2009

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KernelVersion: 2.6.29

Contact: linux-mtd@lists.infradead.org

Description:

Minimal writable flash unit size. This will always be a positive integer.

In the case of NOR flash it is 1 (even though individual bits can be cleared).

In the case of NAND flash it is one NAND page (or a half page, or a quarter page).

In the case of ECC NOR, it is the ECC block size.