Embedded Linux course - Flash storage and filesystems

Total des points 4/10

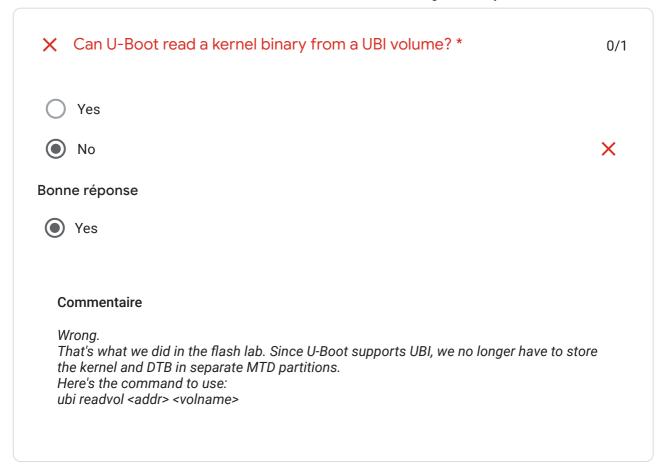
What's the name of the kernel subsystem handling flash memory? *	0/1
lash	×
onnes réponses	
MTD	
mtd	
Memory Technology Devices	
Memory Technology Device	
Commentaire	
The correct answer is "MTD", meaning Memory Technology Devices. The subsystem supports flash, but also ROM and RAM chips (which are not used as directly address RAM).	

➤ Does Linux store flash partition information in the first erase blocks? *	0/1
True	×
○ False	
Bonne réponse	
False	
Commentaire Wrong. Linux developers don't trust flash storage to contain critical information such as partition information. If it's stored in a flash sector that becomes bad, there will be no w to recover such information. The first blocks may be guaranteed to be more robust, but that's not enough. That's why Linux offers to store such information in the Device Tree, in kernel code (who no DT), or in the kernel command line.	vay
✓ What's 0x1000000 in MiB? *	1/1
O 1 MB	
○ 8 MB	
● 16 MB	✓
Commentaire Correct. It may help to remember that 0x100000 (with 5 zeroes) is 1 MiB.	

✓ Flash partitions have to be a multiple of: *	1/1
The page write size	
The erase block size	✓
Commentaire Correct. Each partition must start and finish at erase block boundaries. Otherwise, it wouldn't be possible to erase the contents of a partition without erasing neighboring partitions too.	
✓ U-Boot reuses the Linux syntax for defining flash partitions *	
• Boot readed the Emax syntax for defining hadir partitions	1/1
True True	1/1
	1/1

	/hat's the name of the Linux user-space tools for handling flash corage? *	0/1
gnu		×
Bonnes	réponses	
mdtuti	Is	
mtd-ut	ils	
The	nmentaire right answer is "mtd-utils". ntains tools to erase flash, write flash, create or format filesystems, to work with UBI.	
× w	/hen you have multiple JFFS2 partitions, does wear leveling happen *	0/1
O 0	n each partition separately?	
O	on the whole flash storage with JFFS2 partitions?	×
Bonne i	réponse	
O	n each partition separately?	
Wror Wear That	ng. r leveling can only be implemented in each MTD partition. 's why using UBI volumes instead of multiple MTD partitions allows to have global ead of local wear levelling, operating in the whole MTD partition used for UBI.	

×	Can I directly mount a SquashFS filesystem on a static (read-only) UBI volume containing a SquashFS image? *	0/1
	Yes	×
0	No	
Bonn	e réponse	
	No	
W Sc Yc	ommentaire rong. quashFS is a block filesystem, it can only be used on a block device. ou may use the "ubiblock" driver to emulate a read-only block device on top of a UBI llume, but that's not direct.	
✓	Do you need to run mkfs.ubifs to use ubifs on a newly created volume? *	1/1
	Yes No	~
Co m A	ommentaire orrect. kfs.ubifs is a command to create a UBIFS filesystem image, that's it. UBIFS filesystem is automatically created when you first try to mount UBIFS on a newly eated UBI volume.	



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