

PiBox - Bug #265

Replace tar extract with dd in mkininstall

14 Jan 2014 20:09 - Hammel

Status:	Closed	Start date:	14 Jan 2014
Priority:	Urgent	Due date:	
Assignee:	Hammel	% Done:	100%
Category:	05 - Releases	Estimated time:	0.00 hour
Target version:	0.8.0		
Severity:	02 - High		
Description			
<p>mkininstall mounts the rootfs dir and copies to it in an attempt to make the entire 2nd partition available after installation to the SD card. However, this often fails when trying to set the root user on all those files, possibly because the chown is running while data is still being pushed to the SD card.</p> <p>To get around this I can create the ext3 image for the rootfs in buildroot.mk (the target is already there) and copy it to the pkg directory with buildroot-pkg. Then the mkininstall can be updated to remove the tar extraction line for the rootfs and replace it with these lines (before the partition is mounted):</p> <pre>sudo dd if=rootfs.ext3 of=\$ROOTFSDIR bs=16384 sudo e2label \$ROOTFSDIR rootfs sudo e2fsck -f \$ROOTFSDIR sudo resize2fs \$ROOTFSDIR</pre> <p>where the rootfs.ext3 filename should be made a variable like \$RAMDISK (which currently points to the rootfs.tar file).</p> <p>This will use dd to write to the disk first, then set the proper label, clean up the filesystem and then resize the filesystem to match the partition size. After that the partition can be mounted the the chown run.</p>			

Associated revisions

Revision b5c0a5a0 - 19 Jan 2014 14:48 - Hammel

RM #265: Switch to using rootfs.ext3 and dd to write to SD card during install.

Revision 374505b9 - 26 Jan 2014 15:28 - Hammel

RM #265: Fix make target to generate rootfs.ext3 file instead of ramdisk.ext3 so it matches mkininstall.sh.

History

#1 - 19 Jan 2014 14:50 - Hammel

- % Done changed from 0 to 50

Updates added and pushed upstream. Awaiting a full test with packaging.

#2 - 03 Feb 2014 20:42 - Hammel

- Status changed from New to Closed

- % Done changed from 50 to 100

Tested with packaging. Works much better. I have had no lockups yet using this method, while with tar to the SD card was slower and often locked up requiring a host reboot.

Closing issue.