power loss not too much data is lost. My raspberry stores temperature data in a rigitool database

First, you create two directories somewhere on the sd card. One is the backup location for the d the mount point of the ramdisk (/home/andreas/rrd). Set this up by editing /etc/fstab. How to cre

Then we need a script to backup and restore the ramdisk data. We use an init script called *persi* and shutdown:

```
#!/bin/bash
2
  ### BEGIN INIT INFO
3
  # Provides:
                        persist-ramdisk
5 # Default-Start:
                        2 3 4 5
6 # Default-Stop:
                         0 1 6
7
  # Required-Start:
  # Required-Stop:
8
9
  # Short-Description: Backup / restore ram disk contents during boot / shutdown.
10 # Description:
                         Backup / restore ram disk contents during boot / shutdown.
11 ### END INIT INFO
12
13 PERSIST_STORE=/home/andreas/persist
14 RAMDISK=/home/andreas/rrd
15
16 case "$1" in
17
     start)
       echo "Restoring ramdisk contents"
18
19
       rsync --quiet --archive ${PERSIST STORE}/ ${RAMDISK}
20
21
     sync stop)
22
       echo "Persisting ramdisk contents"
       rsync --quiet --archive --delete --recursive --force ${RAMDISK}/ ${PERSIST S
23
24
       ;;
25
     * )
       echo "Usage: /etc/init.d/ramdisk {start|stop|sync}"
26
27
       exit 1
28
       ;;
29 esac
30
31 exit 0
```

The script can be called with three different parameters: start, stop and sync. start copies the data from the rameters stop and sync copy the data from the rameters stop and sync copy the data from the rameters.

Both copy operations are done by rsync. Rsync does not copy all files but does a synchronization destination and not changed. So there are as few write operations to the sd card as possible.

the service tool and discards all console output of the script by redirecting it to /dev/null. If the output of the script by redirecting it to /dev/null. If the output of the script by redirecting it to /dev/null. If the output of the script by redirecting it to /dev/null. If the output of the script by redirecting it to /dev/null. If the output of the script by redirecting it to /dev/null. If the output of the script by redirecting it to /dev/null. If the output of the script by redirecting it to /dev/null. If the output of the script by redirecting it to /dev/null.

2 THOUGHTS ON "PERSISTENT STORAGE WITH RAMDISKS"



Marcos

on June 22, 2013 at 09:58 said:

if rsync and cron are not reliable then do this:

edit /etc/rc.local

add;

mke2fs -t ext2 /dev/ram1 2048000

mount /dev/ram1 /mnt/ram1

this formats 2gb ramdisk at boot...change for 1gb or 4gb 1024000 or 4096000 reor 'mkdir/mnt/'your choice' and mount it there.

next after login in term create a ramdisk save directory on harddisk mkdir /home/ramdisksave

next open a text editor - geany - gedit - or leafpad, open new file. Type;

#copies ramdisksave contents to ramdisk cp -a /home/ramdisksave/. /mnt/ram1

save as 'copy to ramdisk.sh' in /home folder; then change permissions to make enext in editor open another new fil., Type;

#saves ramdisk contents to ramdisksave folder cp -a /mnt/ram1/. /home/ramdisksave/

save as 'save ramdisk to HD.sh' in /home folder; change permissions to executal

Corrected

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save as 'save ramdisk to HD.sh' in /home folder; change permissions to executal

Now you have a ramdisk created and mounted at boot and scripts to load and sa ramdisk. You could also add script texts to rc.shutdown and rc.sysinit to occur at option to perform these tasks manually at will is reassuring. Two more scripts couramdisk save

#deletes ramdisk contents cd /mnt && rm -rf ram1/*