

```
1 #!/bin/bash
2 #
3 # cron_dacs_v1.sh -- 140531rjn
4 #
5 # Description:
6 # 1. Reads dacs analog 1 with the "v1" command.
7 # 2. Date/time tagged reading is appended to the output file for plotting.
8 # 3. Serial port setup is in this script. Response captured with background task.
9 # 4. Now set up to read values in an hourly cron task.
10 # 5. Usage: ./cron_dacs_v1.sh
11
12 shopt -s -o nounset # disallow uninitialized variables
13 #
14 # ----- variables
15 declare RA="v1 " # the "v1" command reads the voltage on analog input 1
16 declare DOUT="/home/bob/logs/dacs_v1.txt" # dacs output file
17 declare TMP0="/tmp/tmp0.$$" ; touch ${TMP0} # temp file
18 declare TMP1="/tmp/tmp1.$$" ; touch ${TMP1} # temp file
19 declare PORT="/dev/ttyUSB0" # serial port device name
20 #
21 stty -F ${PORT} 19200 # serial port setup
22 cat ${PORT} >> ${TMP0} & # bg. task to capture serial output to stdout (console)
23 bgPid=$? # capture PID of serial bg. task
24 echo ${RA} > ${PORT} # send the "v1" command to the dacs
25 sleep 0.1 # wait for bg. task to complete
26 echo `date '+%y%m%d-%T'` `cut -c 4-8 ${TMP0}` >> ${DOUT} # date/time to output
27 rm ${TMP0} ${TMP1} # delete temp files
28 kill $bgPid # kill bg. task
29 exit 0
```