

////////////////////////////////////set f_in pin value and check value applied or not

opencn ~ # ./halcmd setp loopback.0.f_in.0 33.333

opencn ~ # ./halcmd show pin loopback

opencn ~ # ./halcmd show pin loopback.0.f_in.0

opencn ~ # ./halcmd getp loopback.0.f_in.0

33.333

////////////////////////////////////Tried to check f_out value its zero

opencn ~ # ./halcmd getp loopback.0.f_out.0

0

////////////////////////////////////set s32_in pin value and check back value

opencn ~ # ./halcmd setp loopback.0.s32_in.1 99

opencn ~ # ./halcmd getp loopback.0.s32_in.1

99

////////////////////////////////////check loopback time

opencn ~ # ./halcmd getp loopback.0.time

0

////////////////////////////////////values are not being copied from in pin to out

pin

opencn ~ # ./halcmd getp loopback.0.s32_in.1

99

opencn ~ # ./halcmd getp loopback.0.s32_out.1

0

//////////////////////////////////// command does not return anything

opencn ~ # ./halcmd show pin loopback

////////////////////////////////////tried some other commands randomly

opencn ~ # ./halcmd show pin loopback.0

//////////////////////////////////// start command given to hal

opencn ~ # ./halcmd start

////////////////////////////////////now checked the pins and vaues are being copied from s32_in to s32_out

opencn ~ # ./halcmd getp loopback.0.s32_in.1

99

opencn ~ # ./halcmd getp loopback.0.s32_out.1

99

//to some more trials

//check loopback time

opencn ~ # ./halcmd getp loopback.0.time
4225

// set random value to pin

opencn ~ # ./halcmd setp loopback.0.s32_in.1 245

// check whether value applied or not to pin s32_in

opencn ~ # ./halcmd getp loopback.0.s32_in.1
245

// check whether value copied or not to pin
s32_out

opencn ~ # ./halcmd getp loopback.0.s32_out.1
245

//Now do a different handson//

//first restart openCN

opencn ~ # ./halcmd load loopback cfg=ff

//check loopback time

opencn ~ # ./halcmd getp loopback.0.time
0

//set random value to pin and check

opencn ~ # ./halcmd setp loopback.0.f_in.0 3333.3333
opencn ~ # ./halcmd getp loopback.0.f_in.0
3333.33

//check whether value written to out pin

opencn ~ # ./halcmd getp loopback.0.f_out.0
0

// give hal start command //

opencn ~ # ./halcmd start

// check value written to out or not //

opencn ~ # ./halcmd getp loopback.0.f_out.0

0

```
//////////////////////////////// set value again  
opencn ~ # ./halcmd setp loopback.0.f_in.0 333.333
```

```
//////////////////////////////// check value in out pins  
opencn ~ # ./halcmd getp loopback.0.f_in.0  
333.333
```

```
//////////////////////////////// stop halcmd  
opencn ~ # ./halcmd stop
```

```
//////////////////////////////// check vale in out component  
opencn ~ # ./halcmd getp loopback.0.f_out.0  
0
```

```
////////////////////////////////create a new thread////////////////////////////////  
  
opencn ~ # ./halcmd load threads name1=mythread period1=20000
```

```
////////////////////////////////use halcmd  
help////////////////////////////////
```

```
opencn ~ # ./halcmd -h
```

Usage: halcmd [options] [cmd [args]]

halcmd [options] -f [filename]

options:

- e echo the commands from stdin to stderr
- f [filename] Read commands from 'filename', not command line. If no filename, read from stdin.
- i filename Open .ini file 'filename', allow commands to get their values from ini file.
- k Keep going after failed command. Default

is to exit if any command fails. (Useful with -f)

- q Quiet - print errors only (default).
- Q Very quiet - print nothing.
- R Release mutex (for crash recovery only).
- s Script friendly - don't print headers on output.
- v Verbose - print result of every command.
- V Very verbose - print lots of junk.
- h Help - print this help screen and exit.

commands:

loadrt, loadusr, waitusr, unload, lock, unlock, net, linkps, linksp,
unlinkp, newsig, delsig, setp, getp, ptype, sets, gets, stype,
addf, delf, show, list, save, status, start, stop, source, echo, unecho, quit, exit
help Lists all commands with short descriptions
help command Prints detailed help for 'command'

```
////////////////////////////////////Use detailed  
help////////////////////////////////////
```

```
opencn ~ # ./halcmd -h show  
show [type] [pattern]  
Prints info about HAL items of the specified type.  
'type' is 'comp', 'pin', 'sig', 'param', 'funct',  
'thread', or 'all'. If 'type' is omitted, it assumes  
'all' with no pattern. If 'pattern' is specified  
it prints only those items whose names match the  
pattern, which may be a 'shell glob'.
```

```
////////////////////////////////////create a new thread again and do tests  
////////////////////////////////////
```

```
opencn ~ # ./halcmd load threads name1=first_thread period1=20000  
hal_systemv: waiting for child ./threads  
OpenCN: Threads component starting...  
threads_connect returned with ret = 0  
hal_systemv: OK, we can go ahead...
```

```
opencn ~ # ./halcmd start
```

```
opencn ~ # ./halcmd load loopback cfg=fsub
hal_systemv: waiting for child ./loopback
hal_connect returned with ret = 0
hal_systemv: OK, we can go ahead...
```

```
opencn ~ # ./halcmd addf loopback.0 first_thread
```

```
//////////////////////////////// check component time
////////////////////////////////
```

```
opencn ~ # ./halcmd show loopback.0.time
<commandline>:0: net failed
opencn ~ # ./halcmd getp loopback.0.time
2029
```

```
// check thread time //
```

```
opencn ~ # ./halcmd getp first_thread
```

```
<commandline>:0: getp failed
opencn ~ # ./halcmd getp first_thread.time
3036
```

```
//////////////////////////////// try some more from user guide tutorials
////////////////////////////////
```

```
opencn ~ # ./halcmd load loopback cfg=fsub
hal_systemv: waiting for child ./loopback
hal_connect returned with ret = 0
hal_systemv: OK, we can go ahead...
```

```
opencn ~ # ./halcmd load threads name1=loopback_thread period1=20000
hal_systemv: waiting for child ./threads
OpenCN: Threads component starting...
threads_connect returned with ret = 0
hal_systemv: OK, we can go ahead...
```

```
opencn ~ # ./halcmd addf loopback.0 loopback_thread
```

```
opencn ~ # ./halcmd start
```

```
opencn ~ # ./halcmd getp loopback_thread.time  
1696
```

```
opencn ~ # ./halcmd getp loopback.0.time  
1490
```