

Radio SW Operation Instructions

POWERING UP THE COMPUTER & BEGINNING TEST

- | | |
|--|---|
| 1. Power switch on | Using switch on the side of the computer (upper right)
Computer boots up into Windows |
| 2. CNTL-ALT-DEL | to begin windows Login |
| 3. Username: Modular
Password: modular | Login to Windows
(lower case) |
| 4. Linux | Double click on Linux icon on the desktop
This brings up the Linux Operating system under VMware |
| 5. "Power On button" – one click | In VMware click once on "Power On" button in the upper left.
vmware will boot up (this will take a while) |
| 6. CNTRL-ALT-ESC and then
press left mouse button | This changes cursor from Windows back into Linux
window. Cursor should now be a square (not an arrow) |
| 7. colunga-1 login: mms
password: modular | type "mms" for login to vmware
type "modular" for password to vmware
should get the: <u>colungavm-1:mms\$</u> Prompt |
| 8. pswd -r BOOTDIR=/taz/boot | Must change the boot directory |
| 9. (Power up radio and Hub) | UUT must be powered up before the next command. |
| 10. pswtip | Load the Hub interface driver
should get the: <u>arm Boot (roadrunner), V2.6.003-r ></u> prompt |
| 11. net/scripts/test-radioa-new | Initializes the test program (for radio A) or for radio port B use
net/scripts/test-radiob-new (repeater is always radio A).
wait for 20 seconds while script runs. when finished execute the
"pa dump" or the "pb dump" command to verify registers and verify
communications with radio are okay. |

VALID TEST PROGRAM SETTINGS:

Note: "pa" is if using radio A port. If using radio B port use "pb".

Note: The following prompt will be present before each command: **arm Boot (roadrunner), V2.6.003-r >**

- | | |
|--------------|---|
| pa | Lists the program settings. Initially all defaults will appear |
| pa dump | Dump registers out of the BBP
Verify 1 st 3 are: D2 00 07 |
| pa setdac:xx | where xx is 0 to 255. This is the DAC setting that controls the output power level. |
| pa cnt:xx | where xx is 1 to ???. This is the number of packets to TX
The default is 1000 packets. (3 seconds of transmitting)
Note: 5000 packets of length 250 (default length) results in about 15 seconds of transmitting. |

pa size:xx	where xx is the number of bytes per packet (default is 250) Valid range is from 1 to 1000
pa chan:xx	where xx is from 1 to 10. This is the 802.11b DSSS channel of operation. Default value is channel = 5
pa set	Must invoke this in order to make the channel change valid
pa dly:xx	Delay in mSec between packets sent out
pa randdata:1	Enable random data function for TX
pa randdata:0	Disable random data function for TX (then 0x55 is always sent)

EXITING AND SHUTTING DOWN THE COMPUTER

1. Exit
type "exit" to get to **colungavm-1: mms\$** prompt
2. su
password: [roadph@se2](#)
type "su" to login as super user
enter password of [roadph@se2](#)
Should get the **[root@colungavm-1 mms] #** Prompt
3. /sbin/shutdown -h now
shutdown linux & vmware
4. "X" to close vmware window
click on "X" in upmost right of window to close vmware
5. Start – Shutdown
Exit Windows (if desired)
6. Power Down
Switch on right side of computer (upper right)