Note: Yellow are the software changes for setting DCAN 1 TX-RX Pins on profile 0 (By this CAN is getting initialized and detected but not able to transfer data)

Below were the state which followed before your post and were able to get can utilies in profile#0

Step1:

In board-am335xevm.c file, "/<tisdk\_dir>/board-support/linux-3.2.0-psp04.06.00.08.sdk/arch/arm/mach-omap2/board-am335xevm.c" , replaced the below code portion,

static struct pinmux\_config d\_can\_gp\_pin\_mux[] = {

{"uart0\_ctsn.d\_can1\_tx", OMAP\_MUX\_MODE2 | AM33XX\_PULL\_ENBL},

{"uart0\_rtsn.d\_can1\_rx", OMAP\_MUX\_MODE2 | AM33XX\_PIN\_INPUT\_PULLUP},

{NULL, 0},

}; //this is default

with,

static struct pinmux\_config d\_can\_gp\_pin\_mux[] = {

{"uart0\_ctsn.d\_can1\_tx", OMAP\_MUX\_MODE0 | AM33XX\_PULL\_ENBL},

{"uart0\_rtsn.d\_can1\_rx", OMAP\_MUX\_MODE0 | AM33XX\_PIN\_INPUT\_PULLUP},

{NULL, 0},

}; //this is replaced one

Also modified in d\_can\_init function in same file as:

static void d\_can\_init(int evm\_id, int profile)

{

switch (evm\_id) {

case IND\_AUT\_MTR\_EVM:

if ((profile == PROFILE\_0) || (profile == PROFILE\_1)) {

setup\_pin\_mux(d\_can\_ia\_pin\_mux);

/\* Instance Zero \*/

am33xx\_d\_can\_init(0);

}

break;

case GEN\_PURP\_EVM:

if ((profile == PROFILE\_0) || (profile == PROFILE\_1)) { //profile chane from 1 to 0

setup\_pin\_mux(d\_can\_gp\_pin\_mux);

/\* Instance One \*/

am33xx\_d\_can\_init(1);

}

break;

default:

break;

}

}

Step2:

In devices.c file, "/<tisdk\_dir>/board-support/linux-3.2.0-psp04.06.00.08.sdk/arch/arm/mach-omap2/devices.c" , added "am33xx\_d\_can\_init(1)" in omap2\_init\_devices() function.

static int \_\_init omap2\_init\_devices(void)

{

/\*

\* please keep these calls, and their implementations above,

\* in alphabetical order so they're easier to sort through.

\*/

omap\_init\_audio();

omap\_init\_mcpdm();

omap\_init\_dmic();

omap\_init\_camera();

omap\_init\_mbox();

omap\_init\_mcspi();

omap\_init\_pmu();

omap\_hdq\_init();

omap\_init\_sti();

omap\_init\_sham();

omap\_init\_aes();

omap\_init\_vout();

am33xx\_register\_edma();

am33xx\_init\_pcm();

am33xx\_d\_can\_init(1); //added here for dcan initialization during boot up

#if defined (CONFIG\_SOC\_OMAPAM33XX)

am335x\_register\_pruss\_uio(&am335x\_pruss\_uio\_pdata);

if (omap3\_has\_sgx())

platform\_device\_register(&am335x\_sgx);

#endif

return 0;

}

Step3:

After doing above changes, compiled and rebuilded sitara linux in /<SDK\_Install\_directory>/

make linux\_clean

make

Step4:

Ran ./setup-targetfs-nfs.sh script to create Root File system in /<sdk\_install\_dir>/targetNFS/

Step5:

Inserted new formatted SD-card and ran ./create-sdcard.sh

During installation we proceed with “Custom boot and rootfs file path” and have provided path to them as below:

boot path: /<tisdk\_dir>/board-support/prebuilt-images

rootfs path: /<tisdk\_dir>/targetNFS (created in above step)

Step6:

After installation, we replaced uImage with “/<tisdk\_dir>/board-support/linux-3.2.0-psp04.06.00.08.sdk/arch/arm/boot/uImage” in boot partition of created Sdcard.

Step7:

Finally rebooted EVM with newly created sitara SDCard with DIP setting 0000 (profile#0)

and issued below command:

root@am335x-evm:~# ifconfig -a

can0 Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00

NOARP MTU:16 Metric:1

RX packets:0 errors:0 dropped:0 overruns:0 frame:0

TX packets:0 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:10

RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)

Interrupt:55

eth0 Link encap:Ethernet HWaddr D4:94:A1:8D:81:16

UP BROADCAST ALLMULTI MULTICAST MTU:1500 Metric:1

RX packets:0 errors:0 dropped:0 overruns:0 frame:0

TX packets:0 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)

eth1 Link encap:Ethernet HWaddr D4:94:A1:8D:81:17

BROADCAST MULTICAST MTU:1500 Metric:1

RX packets:0 errors:0 dropped:0 overruns:0 frame:0

TX packets:0 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)

lo Link encap:Local Loopback

inet addr:127.0.0.1 Mask:255.0.0.0

UP LOOPBACK RUNNING MTU:16436 Metric:1

RX packets:198 errors:0 dropped:0 overruns:0 frame:0

TX packets:198 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:304700 (297.5 KiB) TX bytes:304700 (297.5 KiB)

wlan0 Link encap:Ethernet HWaddr 00:01:33:88:44:72

BROADCAST MULTICAST MTU:1500 Metric:1

RX packets:0 errors:0 dropped:0 overruns:0 frame:0

TX packets:0 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)

root@am335x-evm:~#

We are able to view all dcan ulities, ip, canconfig, cansend, candump and cansequence but during Tx/Rx of data, its not responding. Below are some logs from different can commands:

root@am335x-evm:~# canconfig can0 bitrate 50000 ctrlmode triple-sampling on

can0 bitrate: 50000, sample-point: 0.875

can0 ctrlmode: loopback[OFF], listen-only[OFF], tripple-sampling[ON],one-shot[OFF], berr-reporting[OFF]

root@am335x-evm:~# canconfig can0 start

[ 128.190826] d\_can d\_can.1: can0: setting CAN BT = 0x1c1d

can0 state: ERROR-ACTIVE

root@am335x-evm:~# cansend can0 -i 0x10 0x11 0x22 0x33 0x44 0x55 0x66 0x77 0x88

interface = can0, family = 29, type = 3, proto = 1 //but data is not being received at other side of can device connected to board

root@am335x-evm:~# candump can0

interface = can0, family = 29, type = 3, prot .... //its keep waiting but unable to display any data