

Re: platform builder 4.2 debugger cannot connect to target

Source:

<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.platbuilder/2007-01/msg00375.html>

- *From:* "Paul G. Tobey [eMVP]" <p space tobey no spam AT no instrument no spam DOT com>
 - *Date:* Wed, 10 Jan 2007 14:47:51 -0700
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Based on your settings, what's going on is that PB is expecting debug connections via Ethernet, but your OS is built to actually connect via serial. You could either change the Configure Remote Connection to set the Kernel Transport to Serial (and set the parameters), or change your OAL code to init KITL for Ethernet, not serial as it's doing now.

Paul T.

"catspaw" <hsubbaram@xxxxxxxx> wrote in message
<news:1168460855.463985.325160@xx>

Hi,

Thanks for your response, Paul.

I have a 10 M Extension Ethernet card. I am using an EMBEST PXA255DB Development platform. Not sure what a VMini network adapter is, how can I find out whether this is part of the image? The board has a network card and I have added the network driver to the image.

Here are the debug components in PB platform settings:

- Enable CE Target Control Support ---- yes
- Enable Eboot Space in Memory ---- yes
- Enable Event Tracking during Boot ---- no
- Enable Full Kernel Mode ---- yes
- Enable Image for Flash ---- yes
- Enable Images Larger than 32 MB ---- yes
- Enable Kernel Debugger ---- yes
- Enable KITL ---- yes
- Enable Profiling ---- no
- Flush Events to Release Directory ---- no

In addition, the following environment variables are defined:

BSP_LUBBOCK 1
PLAT_CIMSUN 1

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I captured the serial port output during the download and boot up.
During the bootup process, I get the following message:

```
0x82cbe024: ERROR:  
d:\mckendric\private\winceos\coreos\nk\kernel\kwin32.c line 649:  
0x82cbe024: ConnectDebugger failed
```

Guess something is wrong, could you help. (I am attaching the sequence of debug messages output to the serial port below).

Thanks for your help.
Harish

```
# InitSpecifiedEthDevice(): Checking for CS8900 Ethernet controller...  
Entering CS8900DBG_Init().  
dwEthernetIOBase = 0xBE300300  
CS8900: MAC Address: 0:10:1:10:2:10  
INFO: Probe: CS8900 is detected.  
CS8900 Ethernet controller initialized.  
pDriverGlobals->eth.EbootDevice.(0xA3DC8806 : 0x00000003)  
Device identification: CEB255528  
InitDHCP(): Calling ProcessDHCP()  
ProcessDHCP():DHCP_INIT  
Waiting for DHCP assignment...  
ProcessDHCP():DHCP IP Address Resolved as 172.16.4.135, netmask:  
255.255.255.0  
Lease time: 28800 seconds  
No ARP response in 2 seconds, assuming ownership of 172.16.4.135  
Sent BOOTME to 255.255.255.255  
Sent BOOTME to 255.255.255.255  
Sent BOOTME to 255.255.255.255  
Locked Down Link 1  
Src IP 172.16.4.135 Port 0800 Dest IP 172.16.4.123 Port 060D  
EthDown::TFTPD_OPEN::boot.bin  
Downloading .BIN file  
Downloading operating system image for flash target.  
Image start: 0x98380000 length: 0x01C5B124 cache location: 0x800C0000  
.....  
EDBG_CMD_JUMPIMG  
Got EDBG_CMD_CONFIG, flags:0x00000000  
Network Transfer Complete
```

```
Verify checksums...  
Checksums verified correct.  
# Main.c : fileType = BIN  
# Main.c : fileType = FLASHTARGET  
Found pTOC signature in downloaded image.  
Preparing to write 0x1C5B124 bytes to flash from RAM address 0x800C0000  
FStartAddr = 0xB8380000 , FCacheAddr = 0xA00C0000.  
Erasing Flash B8380000 to B9FFFFFF: Please wait ...
```

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.....
Performing erase verification ...
Flash erasing complete.

Now programming Flash ...

.....
Comparing Flash vs RAM image ...
Flash programmed successfully!
Storing image launch address to flash...
StoreEBootCFG.

Erasing Flash B8340000 to B837FFFF: Please wait ...

.
Performing erase verification ...
Flash erasing complete.
Found pTOC signature.
Download successful! Jumping to image at 98381000h...

Found pTOC signature.
ROMHDR at Address 99FD8ED0h
RomHdr.ulRAMStart=800C0000h RomHdr.physfirst=98380000h.
Verify checksums...
Checksums verified correct.
pDriverGlobals->eth.EdbgFlags(0xA3DC8806 : 0x00000003)...
Download successful! Jumping to image at 98381000h...
OEMInitDebugSerial.

OEMInitDebugSerial using UART2

Windows CE Kernel for ARM (Thumb Enabled) Built on Mar 13 2003 at
22:44:13

ProcessorType=02d0 Revision=6

sp_abt=ffff5000 sp_irq=ffff2800 sp_undef=ffffc800 OEMAddressTable =
98381d90

Booting Windows CE version 4.20 for (ARM)

&pTOC = 9838a2bc, pTOC = 99fd8ed0, pTOC->ulRamFree = 800f3000, MemForPT

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= 00000000

Old or invalid version stamp in kernel structures – starting clean!

Configuring: Primary pages: 11208, Secondary pages: 0, Filesystem pages
= 5604

Booting kernel with clean memory configuration:

Memory Sections:

[0] : start: 800f4000, extension: 00003000, length: 02bc8000

Sp=ffffc7cc

ARMInit done.

Windows CE KernelInit

Updated eptr->e32_vsize to = 000ab000

Scheduling the first thread.

0x82cbe024: KernelInit2: pCurThread=82cbe024 hCurThread=02cbe262
hCurProc=02cbe002, KernelInit = 983a3a00

0x82cbe024: Detecting VFP...0x82cbe024: VFP Not Found!

0x82cbe024: Updated eptr->e32_vsize to = 00016000

0x82cbe024: ERROR:

d:\mckendric\private\winceos\coreos\nk\kernel\kwin32.c line 649:

0x82cbe024: ConnectDebugger failed

Paul G. Tobey [eMVP] wrote:

Do you have the VMini network adapter in your image? It sounds like, although you can connect to the device via KITL, you haven't included a method for the OS to see that there's some sort of an Ethernet adapter, so you have no one to respond to PING, etc.

What debug components do you have selected in the project settings in PB or with IMGxyz environment variables?

Re: platform builder 4.2 debugger cannot connect to target

Paul T.

"catspaw" <hsubbaram@xxxxxxxx> wrote in message
news:1168379146.872344.8280@xx

Hello All,

I have a problem in starting the kernel debugger from
platform builder
4.2. I am using the ethernet for downloading and kernel
transport. My
PC is running windows xp professional, and the target is
running wince
4.2.

Both the PC and the board are connected to a hub. I can see
messages
go back and forth while downloading. However, I cannot
ping the board
from my PC after the image is downloaded and the platform
is up and
running.

I also cannot download an application from EVC 4.2.

When I try connecting to the target, I get this message:
"Kernel debugger is waiting to connect with target."

It never connects, so I disconnect. At this point, the
following
message is output:
Kernel debugger failed to connect with target (KDBG open
stream
failed).
Debugger could not initialize connection.

I am doing something wrong, can someone offer suggestions.

Thanks in advance.

Harry