

Re: 0x0000007B

Source:

<http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.embedded/2007-07/msg00072.html>

- *From:* Mike <Mike@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Sun, 8 Jul 2007 18:16:00 -0700
-

Are there any BIOS updates for the system?

Yes there was a BIOS update, posted I think July 2nd on Intel's site. The update description was terse... some issues with some strings not being filled in and such. I downloaded and installed the new BIOS. Nothing really changed.

I determined that my inability to boot the XP Pro setup CD was a problem with the CD-ROM drive. I replaced it, and I was able to load XP Pro so that it boots off of the C: drive.

I ran tap starting from this "normal" configuration. The BIOS wouldn't even boot the resulting image.

As I mentioned in a previous post, I tracked down the components for most of the drivers that XP Pro loads, that my CF boot wasn't loading, and I added them to my configuration. That added about 50 additional drivers. There was no real change. The only difference was that it took a little longer before the BSOD 7B bug check showed up.

-Mike

"Sean Liming (MVP)" wrote:

At this point I would have to play with the unit to see what is going on.

Are there any BIOS updates for the system?

Regards,

Sean Liming
www.sjjmicro.com / www.seanliming.com
Book Author – XP Embedded Advanced, XP Embedded Supplemental Toolkit

"Mike" <Mike@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message

Re: 0x0000007B

news:E337E61D-91A2-4F35-AC19-E73EDF418788@xxxxxxxxxxxxxxxxxxxx

I would just install XP Pro on the HDD with no USB flash disk attached.

XP

Pro install should have reconized the USB flash disk as a removable device.

When I converted a USB memory stick to a virtual floppy disk, it booted as A:, but the XP recovery image that I installed on the memory stick did not recognize either the hard drive or the CD-ROM drive.

I didn't seem to have the option of installing XP Pro without the XPe bootable USB memory stick, since the bootable image on the XP install CD trapped before it got going.

USB devices are not available in the BIOS boot order, instead there is an extraordinary option to boot from a USB device before the devices specified in the boot order.

Normally USB drives are enumerated after the fixed disks. But when USB boot is enabled, and one is used as a boot device, the BIOS insists on enumerating it first. Hence the USB drive is assigned drive letter C:, instead of being assigned a drive letter E through Z. Hence the issue with XP Pro being installed as disk D, and refusing to boot when enumerated as disk C.

XP setup doesn't seem to provide any means to indicate what it has determined about the fixed/removable status of the USB memory stick. After XP Pro is installed, it does show the USB drive in C: is removable.

In any case, the whims of XP Pro are irrelevant. Installing XP Pro was only supposed to be the means to an end. Running TAP under XP Pro still resulted in a STOP: 0000007B error.

The two devices which Intel provided drivers for do end up with question marks inside of Device Manager in XP Pro. The fact that XP pro runs fine without those drivers shows that they are irrelevant. (When I did install the drivers on XP pro, one of the installs actually failed -- I believe the PCI device number in the INF file is wrong.)

TAP reports 63 devices, and the resulting XPe image has 94 drivers (.sys

Re: 0x0000007B

Re: 0x0000007B

files installed in windows\system32\drivers). The XP Pro image has 165 drivers. I assume that one or more of those extra drivers is the cause of my problem.

Just determining the XPe component or components associated with a few of those drivers inside of Target Designer is a bit of an ordeal. Of the two that I tried, one (vgasave.sys) wasn't even available in any XPe component.

Is there any better way to attack this problem?

–Mike

"Sean Liming (MVP)" wrote:

I would just install XP Pro on the HDD with no USB flash disk attached.

XP

Pro install should have reconized the USB flash disk as a removable device.

Video and audio are the only components missing, which is typical.

Doesn't

sound like there are any special bus driver components.

Regards,

Sean Liming

www.sjjmicro.com / www.seanliming.com

Book Author – XP Embedded Advanced, XP Embedded Supplemental Toolkit

"Mike" <Mike@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message

news:A4FB0475-EE94-4B1C-A806-BA281D691620@xxxxxxxxxxxxxxxxxxxx

Hi Sean,

When I inspected the BOOT.INI file on the hard drive on which I had attempted to install XP, it didn't make any sense to me.

I got past the Windows setup infinite loop by copying NTLDR and

Re: 0x0000007B

Re: 0x0000007B

NTDETECT.COM
to an empty USB memory stick. Then I
added a generic "first disk,
first
partition" BOOT.INI file. I did a USB
reboot, and XP setup ran through
to
completion.

It appears that my problem was that XP
setup is confused by running it
from
a USB memory stick. I can't reboot this copy
of XP Pro without the
helper
USB memory stick in place, seemingly to
make sure that the drive with
XP
on
it enumerates as D:.

I ran TAP from XP Pro, and contrary to
popular wisdom, I ended up with
4
fewer
devices than when I had run TAP from XPe
(USB boot). That is, 63
devices
instead of 67. I'm building another copy of
XPe using that device
component,
but I'm not hopeful.

The D201GLY motherboard did come with
a CD, which has 2 drivers on it:

"SIS Accelerated Graphics Port"
"SIS Mirage Graphics"

There is an autorun Intel installation
program that can be used to
install
these components, apparently after Windows
is up and running. The
documentation does not mention loading
these drivers during XP setup.

With this newest devices.pmq file,
Component Designer reports 5 missing
drivers (one more than before):

Re: 0x0000007B

Warning:Could not find a driver for Video
Controller (VGA Compatible)
(PCI\VEN_1039&DEV_6330&SUBSYS_D61F8086&REV_04).

Warning:Could not find a driver for
Multimedia Audio Controller
(PCI\VEN_1039&DEV_7012&SUBSYS_D61F8086&REV_A0).

Warning:Could not find a driver for
Hardware Device Storage\Volume
(STORAGE\Volume).

Warning:Could not find a driver for Generic
volume (STORAGE\Volume).

Warning:Could not find a driver for Generic
volume (STORAGE\Volume).

The "SIS Mirage Graphics" driver
corresponds to DEV_6330. The "SIS
Accelerated Graphics Port" driver does not
correspond to DEV_7012,
(it's
DEV_1) and I haven't been able to
trackdown a matching driver on the
SIS
website.

-Mike

"Sean Liming (MVP)" wrote:

If Windows XP Pro cannot
install, then you will not get
very far with
XPe.

Did the board come with
any special drivers that
require a F6 during
setup
to install?

Regards,

Sean Liming
www.sjjmicro.com/
www.seanliming.com
Book Author – XP
Embedded Advanced, XP
Embedded Supplemental
Toolkit

"Mike"

Re: 0x0000007B

<Mike@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in message

news:3F5CFC2C-6390-4D3B-AA4F-052E22B7ED93@xxxxxxxxxxxxxxxxxxxx

Hi Sean,

This
motherboard
has a single
IDE
channel
(single IDE
connector)
so
it
can
handle at
most 2 IDE
devices at
once. The
CF is
installed in
an
IDE2CF
adapter,
(which
would
normally be
connected
as the
master on
the
primary
(i.e. only)
IDE
channel).
There is no
SATA
connector.

In your
article
(referenced
below), you
mention
that the best
platform
to
run TAP
from is XP
Professional.

Re: 0x0000007B

Re: 0x0000007B

That made
real sense to
me, so I
connected
a blank 80
GB hard
drive and a
CD-ROM
drive to the
motherboard.

When I
attempt to
boot the XP
setup CD, I
get a "Trap
00000006
===EXCEPTION==="
message,
with a short
register
dump. I'm
not sure
what
to
make of
that.

Next I
augmented
my USB
boot with
every file
system I
could find,
and I
tried
running XP
setup from
XPe booted
from USB.
That
seemed to
work,
so
I
attempted to
install
Windows
on the hard
drive. Setup

Re: 0x0000007B

Re: 0x0000007B

copies a bunch of files to the hard drive, does some initialization, then reboots. Setup says to remove any floppy from the A drive before the reboot. I wasn't sure whether to take that literally, since there is no floppy adapter on this board.

If I leave the USB memory stick plugged in, the boot.ini file directs the boot to "XP Professional Setup", instead of "XP Embedded", as you might expect. However, setup basically starts over at the beginning,

Re: 0x0000007B

Re: 0x0000007B

asking
me
what disk
partition to
install
Windows
on. I go
through the
motions...
it
copies files,
reboots, and
I'm back
where I
started (i.e.
an
infinite
loop).

If it remove
the USB
memory
stick, I get
the
following
message:

"Windows
could not
start
because of a
computer
disk
hardware
configuration
problem.
Could not
read from
the selected
boot disk.
Check boot
path
and
disk
hardware.
Please
check the
Windows
documentation
about
hardware

Re: 0x0000007B

Re: 0x0000007B

disk
configuration
and your
hardware
reference
manuals for
additional
information."

Another
Catch-22.
I'm
guessing
that that last
error
message
occurs
because
the USB
memory
stick is "C:"
when XPe
is booted,
then the
hard disk
becomes
"C:" if I
remove the
memory
stick when
XP setup
reboots.

HP has a
utility that
is supposed
to make a
USB
memory
stick look
like
a
floppy disk.
I'll try that
next and see
if I can get
XP setup to
cooperate
better.

-Mike

Re: 0x0000007B

Re: 0x0000007B

"Sean
Liming
(MVP)"
wrote:

Help
me
understand
the
IDE
configuration

–
Is
this
an
IDE
to
CF
adapter
on
a
secondary
channel?

Is
it
possible
to
boot
from
a
regular
IDE/SATA
hard
drive?

Regards,

Sean
Liming
www.sjjmicro.com
/
www.seanliming.com

Book
Author
–
XP
Embedded
Advanced,

Re: 0x0000007B

Re: 0x0000007B

XP
Embedded
Supplemental
Toolkit

"Mike"
<Mike@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote

in

message

news:B63AE75E-536F-4009-8275-A19A3C32E284@xxxx

I
am
getting
the
dreaded
BSOD
7B
error
during
a
first
boot
from
compact
flash.

I
am
attempting
to
build
an
XPE
bootable
image
for
compact
flash
on
an
Intel
DL201GLY
motherboard.
This
is
a
new

Re: 0x0000007B

board,
with
SIS
chipset
(SIS662
/
SIS964L).
The
board
has
one
IDE
channel
(with
an
added
compact
flash
adapter)
and
no
floppy
support.

I
managed
to
build
an
XPE
bootable
image
for
a
USB
memory
stick.
When
I
boot
from
USB,
Windows
does
not
see
anything
on
the
IDE
channel.

Re: 0x0000007B

I've
tried
both
compact
flash
and
CD-ROM.
On
the
other
hand,
the
BIOS
has
no