

## Re: How to: Load and Boot CE6.0 image on CEPC.

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*Source:*

<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.embedded/2009-05/msg00166.html>

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- *From:* [trentpope@xxxxxxxxxxxxxx](mailto:trentpope@xxxxxxxxxxxxxx)
  - *Date:* Fri, 22 May 2009 06:38:13 -0700 (PDT)
- 

On May 22, 1:49 pm, Rahul P. Shukla

<RahulPShu...@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote:

wow .....

Finally Anyhow I could change some settings in the BIOS and now MY CEPC is getting booted from USB Drive.

1. Copy following files:  
CONFIG.SYS (from DOS boot folder)  
HIMEM.SYS (from DOS boot folder)  
Autoexec.bat  
loadcepc.exe  
NK.bin
2. Modify the Autoexec.bat. Add  
loadcepc /V NK.bin
3. I could see the something is getting downloaded. once its completed, it shows the Jumping to 0x00226D10 and it restart the machine.
4. I have selected only IMGRAM64=1, IMGCELOGINABLE=1. No KITL and No kernel debugger.

I searched for the solution of "Jumping to" proble. I could see many post regarding the same. Then I tried to get the messages in hyper terminal, I did not get anything while booting up.

I will try again to get the output on COM1 (on hyper terminal). If anybody could help me where I may be wrong, just let me know. I will update if I could succeeded.

Thanks for any support.

– Rahul

"trentp...@xxxxxxxxxxxxxx" wrote:

On May 21, 1:53 pm, Rahul P. Shukla

Re: How to: Load and Boot CE6.0 image on CEPC.

<RahulPShu...@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote:

I tried all options (FAT/FAT32) but still same issue. My device has 2 USB ports. i tried with both but .....

It seems my BIOS does not support boot from USB device, but then what comes under "Removable Devices" option ..... ??? GOD knows ...

Still trying hard .....

If anybody feels any drawback in my procedure, plz let me know. or having any other suggestion I should try.

– Rahul

"trentp...@xxxxxxxxxxxxx" wrote:

On May 20, 1:00 pm, Rahul P. Shukla  
<RahulPShu...@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>  
wrote:

Yes, "Legacy USB Support" is enabled.

I wanted to know the procedure I am following is proper or not? I might be missing something!!!! When I use the same bootable USB drive to boot my workstation, it boots the DOS. But when I connect with CEPC, it says "Operating System not found".

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Thanks for looking into my  
query .....

-Rahul

"mstangret" wrote:

It seems  
like BIOS  
issue.

Do you  
have  
something  
like "USB  
legacy  
support"  
enabled?  
Search for  
option that  
enables  
USB in  
BIOS.

Michal

On 20 Maj,  
12:54,  
Rahul P.  
Shukla  
<RahulPShu...@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>  
wrote:

Hi,

I  
went

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through  
the  
post  
you  
suggested.  
I  
am  
doing  
the  
same  
thing,  
as:

1.  
Created  
a  
image  
without  
KITL  
and  
debugger.  
(So  
that  
I  
can  
directly  
download  
the  
image,  
no  
debugging  
required  
this  
time).

2.  
Created  
a  
bootable  
(FAT32)  
USB  
flash  
drive  
by  
using  
"HP  
USB

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Disk  
Storage  
Format  
Tool"  
and  
copied  
the  
NK.bin  
+  
loadcepc.exe+  
autoexec.bat  
files

3.  
Modified  
the  
autoexec.bat  
by  
adding:

loadcepc  
/v  
nk.bin

4.  
Changed  
the  
"Boot"  
settings  
in  
BIOS  
as:

Removable  
Device

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CD-ROM  
drive

IBA  
FE  
Slot

Hard  
Drive

I  
hope  
this  
"Removable  
Device"  
option  
indicate  
the  
"USB  
HDD"  
because  
there  
is  
no  
separate  
option  
for  
"Boot  
from  
USB  
Drive"

5.  
As  
I

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reboot  
the  
CEPC,  
it  
says  
"Operating  
System  
not  
found"..

6.  
Even  
I  
tried  
to  
boot  
simply  
DOS  
in  
my  
CEPC  
(using  
USB  
flash  
drive),  
again  
it  
says  
"Operating  
System  
not  
found".

I  
am  
not  
able  
to  
get  
where  
I  
am  
doing  
wrong.

Re: How to: Load and Boot CE6.0 image on CEPC.

–  
Rahul

"mstangret"  
wrote:

On  
19  
Maj,  
15:04,  
Rahul  
P.  
Shukla  
<RahulPShu...@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>  
wrote:

I  
check  
the  
BIOS  
of  
my  
CEPC  
in  
Boot  
section  
it  
shows  
option  
(in  
sequence):

Removable  
Device  
CD-ROM  
drive  
IBA  
FE  
Slot  
Hard  
Drive

So  
I  
feel

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my  
CEPC  
supports  
boot  
from  
USB  
Flas  
drive  
as  
it  
has  
the  
option  
of  
"Removable  
Device".  
I  
do  
not  
have  
any  
documentation  
of  
the  
CEPC,  
so  
getting  
the  
difficulties.

Let  
me  
know  
I  
m  
getting  
wrong.

"Luca  
Calligaris"  
wrote:

For  
what  
you  
want  
to

Re: How to: Load and Boot CE6.0 image on CEPC.

do  
there's  
no  
difference  
between  
CE  
6.0  
and  
CE  
5.0:  
you  
still  
have  
loadcepc,  
eboot,  
biosloader...  
If  
you  
have  
not  
used  
PB  
before  
you  
should  
at  
least  
read  
'How  
to  
Configure  
and  
Download  
a  
Run-Time  
Image  
to  
a  
CEPC'  
on  
<http://msdn.microsoft.com/en-us/libr>

---  
Luca  
Calligaris  
(MVP-Windows  
Embedded)  
l.calligaris.nos...@xxxxxxxxxxxxxxxxxx  
www.eurotech.it

Re: How to: Load and Boot CE6.0 image on CEPC.

"Rahul  
P.  
Shukla"  
<RahulPShu...@xxxxxxxxxxxxxxxxxxxxx  
ha  
scritto  
nel  
messaggio news:3EC82729-4225-4E

Hi,

I  
have  
installed  
PB6.0  
and  
want  
to  
do  
some  
R&D  
over  
that.  
I  
have  
a  
CEPC  
which  
originally  
have  
WinCE  
5.0  
OS  
in  
it.  
I  
want  
to  
develop  
and  
load  
a  
sample  
CE6.0  
image.  
I  
could

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do  
this  
with  
device  
emulator.  
But  
in  
case  
of  
CEPC,  
not  
able  
to  
do.  
Could  
anybody  
tell  
me  
that:

1.  
What  
are  
the  
steps  
I  
should  
follow  
to  
load  
and  
boot  
the  
nk..bin  
in  
the  
CEPC?

2.  
What  
are  
the  
h/w  
requirements  
for  
CE6.0  
image  
to  
be  
uploaded

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in  
CEPC?  
3.  
What  
are  
the  
different  
ways  
to  
can  
load  
and  
boot  
the  
image?

Is  
there  
any  
document  
which  
could  
guide  
me  
step  
by  
step  
(as  
I  
am  
new  
in  
WinCE  
6.0)  
to  
do  
this  
all.

Thanks  
you.

<http://groups.google.com/group/microsoft.public.win>

Re: How to: Load and Boot CE6.0 image on CEPC.

Hi Rahul,

I think you should start again from the beginning to narrow the problem a little. I would have recommended that you try booting the USB on a standard PC but you have tried that already and it worked so you are back to the board itself.

The first thing to do is to eliminate all the CE files (nk.bin, loadcepc and your edited autoexec.bat) from the problem. Re-format the USB key using the HP tool but this time format it as just FAT (i.e. FAT16, not FAT 32) and load the DOS boot files as you did earlier.

Do you have more than one USB controller on the board? Some boards will only boot from the southbridge which might be limited to USB 1.1. A separate chip may provide USB 2.0 capability and may not be bootable. Try switching the port that you are booting from. Try them all!

See how you get on with that first.

What is the type and version of your BIOS? You can see this string when you boot or possibly on the main BIOS screen when you first enter the BIOS. It does indeed sound as though it does not support booting from the USB key.

The "Jumping to ..." text is the verbose output of loadcepc and it tells you the address of where the code is going to next execute. Your image is at least loading so that's the first problem solved. What settings did you change?

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There are many reasons why your image does not boot from this point and it is probably better to create a new post so that experts in that area will see it. In the meantime can you create a debug image and have a look at the output as it boots? Having an image running in the emulator is very different to having it run on actual hardware. Do you have support for USB and mass storage in the image? Is your graphics hardware driver present from the BSP?

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