

RE: SVGA, LCD, Win CE 6.0 and PB

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Hello John...

Do you have the following registry: [HKLM]/Drivers/Display/LCDC

or something along this line defined in your BSP? It could be that the CE 6 driver is getting some bad information from the registry and changing the display.

Good luck.
Michael H.

"John" wrote:

Hi,

The original discussion of my problem is listed under "A black strip on right side of LCD" which may be too long to read. So, I summarize my problem and findings in one post here:

The problem:

I run Win CE 6.0 on an AMD CPU based SBC (Single board computer) board. I've got a black (blank) strip (100 pixels wide) at the right side of the LCD covering (or say, cut off) portion of the desktop image.

What I've found:

- 1) I've got full 800 pixel wide desktop image when I run Win XP on the same board with the same LCD.
- 2) The BIOS image on the LCD is fine. It extends to the edge of the LCD screen.
- 3) I drive a CRT and an LCD simultaneously. While I have a black (blank) strip on the LCD, the image on CRT is ok (full 800 pixels wide).
- 4) When I select the LCD resolution setting in BIOS, the LCD clock rate and

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synch signals change accordingly. I have measured the timing of each signals at different settings. They were correct for that setting. Only the SVGA setting gives me a stable LCD display. The change of LCD modes in BIOS affects image size on CRT but I ve got a full desktop image on CRT no matter what LCD mode I select.

5) I played with resolution settings in boot.ini (w/ BIOS set at SVGA). Except the 800x600 setting, every other setting (higher or lower) actually shows a smaller image on both (CRT and LCD) screens with black (blank) strips all round. The actual resolution changes accordingly. On LCD screen in addition to the blank strip I still lose 1–2% desktop image at the right side (with SVGA setting, I lose $100/800=12.5\%$. What I lose is excatly the width of the blank strip).

6) Under SVGA resolution, if I move the mouse pointer behind the blank strip and do right–click, I can bright up a menu window. So, to the mouse, the screen resolution is SVGA.

7) My board can not read EDID. If I set BIOS read customer EDID, the LCD display is blank.

The help I need:

- 1) Can anyone guess who the possible culprit of this problem is?
- 2) How can I troubleshoot (trace) this problem with PB?

My board vendor thinks this is a display driver problem. But they use AMD BSP and they don't have detailed information (e.g. source code) about the driver. I doubt this is a display driver problem. Maybe I am wrong but I would think different display driver may provide some special features such as being efficient in some regards. But all of them should be able to drive a full desktop image, especially the display driver provided by AMD which should at least be tested for generic capabilities. Right?

Hey, I am stuck. I even don't know what kind of experties to look for to solve this problem. Can anyone can shed me a light? Many thanks in advnace.

John