

## devc-conpxa250

*Console Driver for Textual Output via Intel PXA25x LCD Controller*

### Syntax:

devc-conpxa250 [options]...

### Options:

**-b filename**

The complete path to the font file the character definitions shall be read from. The file must have the BDF format as specified in [BDFSPEC].

**-f filename**

Redirects debug output to the specified file.

**-q**

Runs the driver in quiet mode (no output on console or connected display).

**-v**

Verbose output for debugging purposes.

**-c**

Displays hardware configuration the driver was compiled for

**-v**

Displays driver software version

### Description:

The driver provides a device special file named `"/dev/con1"` which can be used to print textual output on the attached display via POSIX standard functions `open()`, `close()` and `write()`. Input is not processed by the driver. The character bitmaps are read from the specified BDF file. If character output reaches the bottom of the screen it will be scrolled up one line.

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**Note:** Supported resolution is 640x480 pixels only.

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Supported control characters are:

Character	Description
<code>\r</code>	Sets the write position to the beginning of the current line
<code>\n</code>	Sets the write position to the beginning of the next line
<code>\f</code>	Clears the screen

**Table 1: ASCII Control Characters**

## Examples:

Start the driver using the font file `test.bdf` in the current directory:

```
devc-conpxa250 -b test.bdf &
```

Start the driver in quiet mode and use the font file `test.bdf` in the target's root directory:

```
devc-conpxa250 -q -b /test.bdf &
```

## Programming Example:

The following example outputs the "hello world" message to the connected display.

```
#include <fcntl.h>

int main(int argc, char **argv)
{
    /* locals */
    char *msg = "hello world\n";
    int hdl = 0;

    /* open the driver */
    if ((hdl = open("/dev/con1", O_RDWR)) == -1)
        return 0;

    /* output the message */
    if (write(hdl, msg, strlen(msg)) != strlen(msg))
        return 0;

    /* close the driver */
    close(hdl);

    return 1;
}
```

## Technical Support and Distribution:

To obtain technical support for this product, please contact:

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