


For 2014.1 or earlier version you can just refer to <http://www.wiki.xilinx.com/Build+Device+Tree+Blob>  
For 2014.2 or later version there are only a few differences, here is a simple flow:

1. The GIT webpage for 2014.2 or later version is: <https://github.com/Xilinx/device-tree-xlnx>  
Download with GIT tools or you can just select the right tag and click the "Download ZIP" button download the ZIP file on the GIT webpage.

<https://github.com/Xilinx/device-tree-xlnx/tree/xilinx-v2014.2>

**GitHub** This repository ▾ Search or type a command ⓘ Explore

PUBLIC  **Xilinx / device-tree-xlnx**

Linux device tree generator for the Xilinx SDK (Vivado > 2014.1)

82 commits 1 branch 2 releases

tag: xilinx-v2014.2 ▾ **device-tree-xlnx** / +

**Switch branches/tags** ✕

Filter branches/tags

Branches Tags

- ✓ xilinx-v2014.2
- petalinux-v2014.2 xilinx-v2014.2

axi\_iic Ja ax compatible binding

ax correct compatible binding

axi\_sysacc Add axi-sysacc with correct compatible binding

axi\_tft Add AXI TFT support to have correct compatible binding

axi\_traffic\_gen dtg: Generate correct xlnx,device-id binding for axi\_traffic\_generator

axi\_usb2\_device Add axi-usb2-device support

axican dtg: Handle clock binding for IP in Zynq PL

axidma axidma: Workaround axidma interrupt not been generated

axiethernet Update to PSF version 3.0 for all mdd files

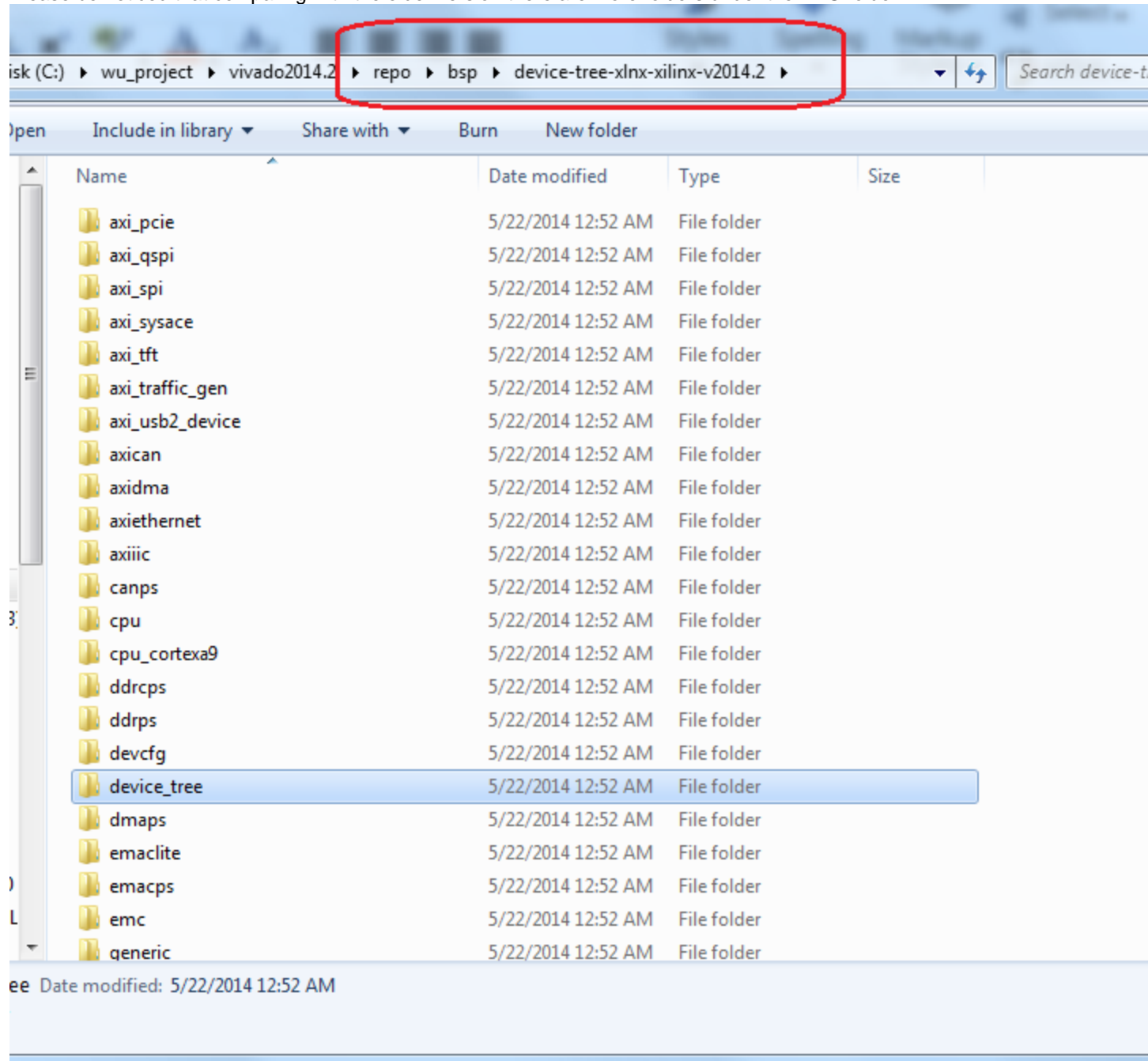
axiic axi\_iic: Fix incorrect compatible binding

canps Update to PSF version 3.0 for all mdd files

2. In order for SDK to be able to import the Device Tree Generator correctly, the file and directory hierarchy needs to look like:

<bsp\_repo>/bsp/device-tree-xlnx-xilinx-vxxxx.x.

Please be noticed that comparing with the older version there are more folders under the DTG folder.



3. Add the BSP repository in SDK:

SDK Menu: Xilinx Tools > Repositories > New... (<bsp\_repo>) > OK

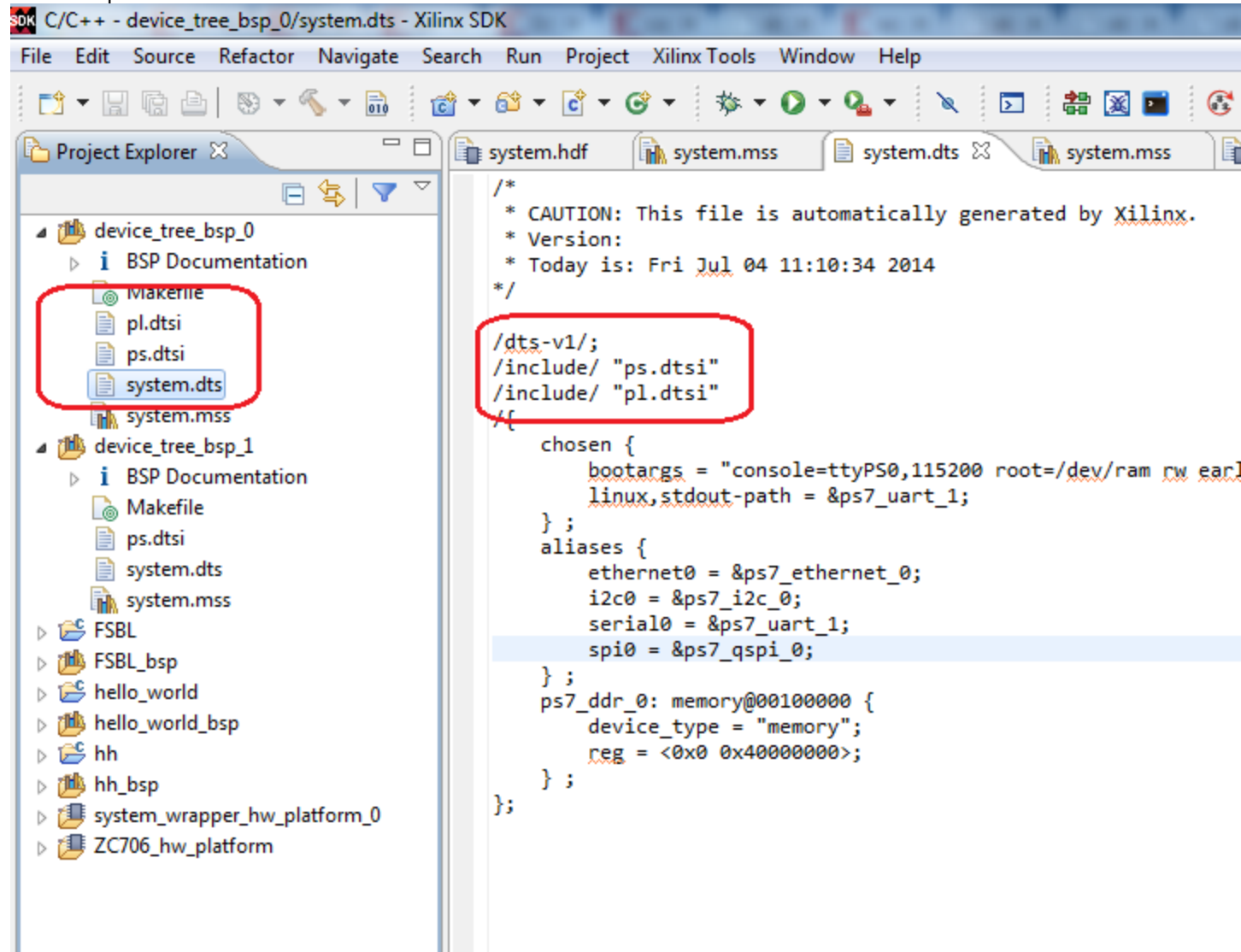
4. Create a Device Tree Board Support Package (BSP):

SDK Menu: File > New > Board Support Package > Board Support Package OS: device-tree > Finish

5. The DTS file is now located in <SDK workspace>/<device-tree bsp name>/

Please be noticed some "DTSI" files may be generated.

You can open the DTS file with a TEXT editor and check if other DTSI files are included:



**Note:** the `device_tree_bsp_0` and `device_tree_bsp_1` are generated with different hardware platform. Only one of them generates the `pl.dtsi` file.

6. Call DTC command to get the DTB file, **make sure all the associated DTS and DTSI files are in the same directory.**

```
./scripts/dtc/dtc -I dts -O dtb -o <devicetree name>.dtb <devicetree name>.dts
```

To get more information about the DTC please refer to <http://www.wiki.xilinx.com/Build+Device+Tree+Blob>