

Steps for Creating Simple Socket Server app

1. On the File menu, point to **New** and click **Nios II Board Support Package**.
2. In the **Project name** box, type "<project_name>_bsp". (Use default location.)
3. Under **SOPC File Name**, browse to and open the <project_directory>\SOPC Information File (.sopcinfo).
4. For **BSP type**: select **Micrium MicroC/OS-II**.
5. For **BSP type version**: select **11.0**.
6. Click **Finish** to close **Nios II Board Support Package** dialog box.
7. Right click on the newly created BSP project, then scroll down to **Nios II** and select **BSP Editor...**
8. Under **Software Packages** tab click check box to enable **altera_iniche** software package.
9. If a DHCP server is available on your network, check the box for **enable_dhcp_client**. If no DHCP server is available, un-check the **enable_dhcp_client** and specify your IP addresses, gateway, and network mask in <tutorial_files>\nichestack_tutorial\niosII_simple_socket_server.h.
10. Click on **Generate** to re-generate the BSP project.
11. Click **Exit** to close the **Nios II BSP Editor** window and click **Yes, Save** when asked if you want to save the BSP Setting File.
12. Right click on the newly modified BSP project, then scroll down to **Nios II BSP Properties** and enter **-DTSE_MY_SYSTEM** in the **Defined symbols: box**.
13. Click **Apply** to save the changes, then click **OK** to close the **Properties for <project_name>** dialog box.

14. On the File menu, point to **New** and select **Nios II Application and BSP from Template**.
15. For **SOPC Information File name:**, browse to and open the <project_directory>\SOPC Information File (.sopcinfo).
16. In the **Project name:** box, type <project_name>. (Use default location.)
17. Under **Project template**, select **Blank Project**.
18. Click **Next**. The second page of the **Nios II Application and BSP from Template** wizard appears.
19. Select **Select an existing BSP project from your workspace**.
20. Highlight the BSP project you created above, then click **Finish**.
21. With a file management tool (such as Windows Explorer), drag and drop all the Nios II Simple Socket Server source files and folders from the <tutorial_files>\nichestack_tutorial folder to the **niosII_simple_socket_server_0** folder in the Nios II SBT for Eclipse Project Explorer view.
22. Right-click application project that you created above and select **Refresh** from the drop-down menu.
23. Right click on the BSP project, then scroll down to **Nios II** and select **Generate BSP**
24. Right-click application project and select **Build Project** from the drop-down menu.
25. Right-click application project again and select **Run as** and **3 Nios II Hardware** from the drop-down menu.
26. **Pray that it works!!!**