BSP-Faq

Generic questions

What does BSP stand for?

BSP stands for BIOS Support Package containing BIOS drivers for various peripherals like VIP, DSS, VPE, I2C, UART, McASP and McSPI

Where do I get BSP releases?

- BSP releases can be downloaded from here [1]

What do I get with BSP, and how do I get started?

Each BSP release is available as a full source release including:

- Complete source code for all drivers, with associated build system
- Sample applications demonstrating the usage of all modules
- Release documents: Release Notes, User Guide, Migration Guide

To get started with BSP, you can refer to the release documents mentioned in the release notes in the `docs` folder of the product. Refer to the BSP_UserGuide.pdf for high level information. The BSP_ApiGuide.CHM provides details on the APIs, and the sample examples provided with BSP demonstrate usage of the APIs.

The BSP_MigrationGuide_FromTI81xxHdvpss.pdf gives migration information from TI81xx HDVPSS to TDA2xx BSP.

What is the relation between BSP and Starterware software packages?

The BSP driver is build on top of the Starterware package. All the hardware and IP specific HAL and CORE layer is present in the Starterware package whereas the BIOS driver specific layer and queue management is present in the BSP package. So these two packages are tightly coupled.
Note: But the Starterware package doesn't depend on BSP package.

How to migrate from HDVPSS to BSP?

Please refer to BSP_MigrationGuide_FromTI81xxHdvpss.pdf present in `docs` folder for more information.

What are the dependency of BSP build?

The BSP build depends on the following packages XDC, BIOS, TDA2xx Starterware, EDMA3LLD, TMS470 CG Tools, C6000 CG Tools and CCS for loading executables.
The exact version required for each component/packages is provided in each release notes (BSP_ReleaseNotes.pdf) present in `docs` folder.

Build questions

Can I build BSP on a Linux machine?

Yes. Edit the Rules.make file under `#Paths for linux machine` to point to the tools path. Then give the following command from prompt

```
gmake -s examples OS=linux
```

How do I build BSP Samples for a particular Platform?

The build platform can be provided through command line which is illustrated below

```
gmake -s examples PLATFORM=tda2xx-evm
```

The supported platforms are tda2xx-evm, tda2xx-virtio, tda2xx-zebu, ti814x-evm

Can I selective build VIP driver only without DSS and VPE drivers?

Yes. It is possible to build only VIP or only DSS or only VPE or any two combination of above three so that other drivers are compiled out resulting in reduction in memory.
The following command could be used
For VIP only build: `gmake -s captureVip PACKAGE_SELECT=vps-vip-only`
For DSS only build: `gmake -s display PACKAGE_SELECT=vps-dss-only`
For VPE only build: `gmake -s m2mVpe PACKAGE_SELECT=vps-vpe-only`

References

[1] http://bangsdowebsvr01.india.ti.com/VAYU_BSP

Article Sources and Contributors

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