VSC6830BSP
Linux Board Support Package for Microsemi Ethernet Switches

Microsemi Linux BSP provides a comprehensive reference package for developers specifically targeting Linux as their operating system.

The VSC6830BSP Linux board support package (BSP) is built using the Yocto Project (www.yoctoproject.org), an open source collaboration project that supplies templates, tools, and methods for creating a fully customizable Linux-based system for embedded products. It also simplifies adding new hardware platforms and software packages.

The VSC6830BSP, as provided through the Yocto Project, demonstrates a fully operational Linux system, including compiler, tool chain, kernel, and root file system. Should a target system be built around another Linux distribution and/or kernel, the bulk of the BSP will be usable by adapting the appropriate platform source code. The VSC6830BSP also operates with Microsemi's switch API (not included) and supports hardware evaluation boards for Microsemi switches with integrated MIPS 24Kec CPUs.

Highlights

- Highly embedded and optimized footprint
- Robust and widely deployed
- Supports all Microsemi Enterprise and Carrier Ethernet switches

Applications

- Enterprise and Small-Medium Enterprise (SME) switches
- Carrier Ethernet switches and routers
- Industrial Ethernet switches
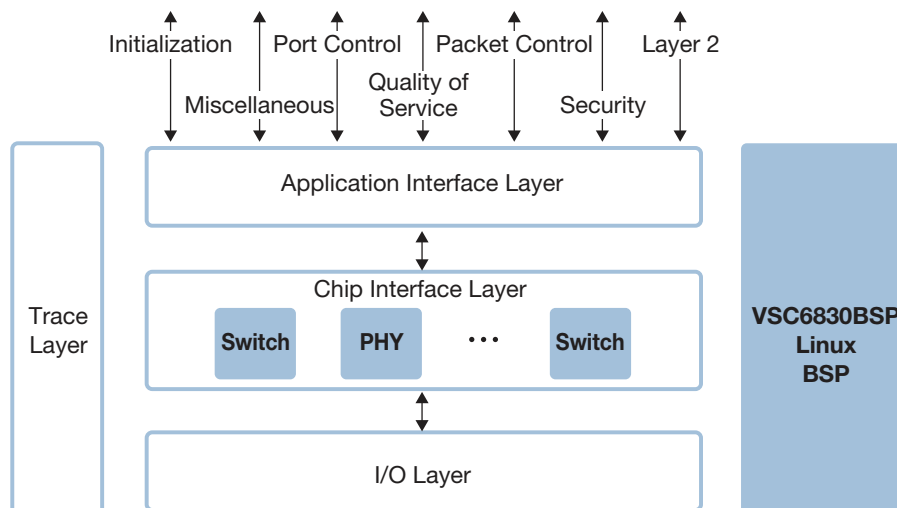
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Package Contents

- Build system: Yocto core 1.4.4 – Dylan
- Kernel: 3.14.8
- CPU architecture: MIPS 24Kec (MIPS 32v2)
- Compiler: GCC 4.7.2
- Root file system: BusyBox 1.20.2, dropbear v2012.55

Supported Evaluation Boards

- SparX-III for VSC7414, VSC7424, VSC7425, VSC7426, and VSC7427 devices
- SparX-IV for VSC7442, VSC7444 and VSC7448 devices
- Caracal for VSC7423, VSC7428 and VSC7429 devices
- Jaguar for VSC7460 and VSC7462 devices
- E-StaX-III for VSC7431, VSC7432 and VSC7434 devices
- Serval for VSC7416 and VSC7418 devices

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