PRESTINION
A Communications Company

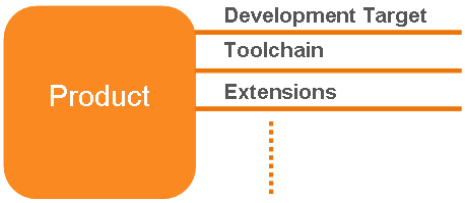
SOLUTION BRIEF

P2SDK – Product based SDK done right Simple …

Product Based SDK

Prestinion's professional Product SDK, P2SDK, is an extensible Makefile based build system for Linux, supporting many concurrent products and heterogeneous builds.

Products Multiple products reside in the same build tree. Make targets are either utility targets or product specific. A product defines toolchain, platform/OS, and the use of SDK extensions.



Heterogeneous Development with multiple toochains and development targets.

Development Targets
- Native Linux applications
- Android Systems/Platforms
- Android Applications – Emulator/Device
- Freescale Embedded Systems – MQX
- TI Embedded Systems – TIRTOS
- Qualcomm WiFi Reference Designs

Toolchains
- GNU ARM Cortex
- GNU Native Linux
- GNU Android
- GNU Raspberry Pi

Extensible The SDK allows the addition of extensions by simply adding files into the SDK control structure.

SDK Extensions
- Toolchain support
- Embedded OSs and platforms
- Patch Management
- Release Management
- Source Code Control Management
- GIT and web download management
- Android app development
- Android system/platform development
- Tools (OpenOCD, SysView, etc.)
- Third party software components

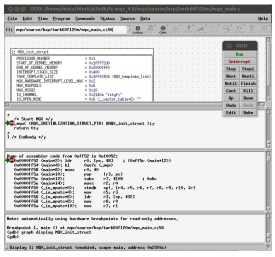
Integration Prestinion's SDK design targets two common working models. The SDK can integrate other SDKs or software build systems for one coherent working model or can itself be integrated into an existing build environment or SDK to maintain a current working model.

Patches Changes against embedded operating systems or third party software packages are maintained as patches through the patch management extension. This allows easy upgrade to future versions and facilitates a repeatable engineering process.

Toolchain Prestinion offers a Linux ARM/Cortex GNU toolchain (gcc, gdb, binutils, newlib, ddd) along with OpenOCD JTAG debugger. Prestinion's flasher toolchain extension allows loading of images onto targets by just using gdb for targets without direct flash support in OpenOCD.

Features

- Multiple concurrent heterogeneous products supported.
- Future proof through extensions with additional features developed locally or provided by Prestinion.
- Easy to add new products, enabling fast development of customer projects.
- All generated files/objects in separated directory structure organized after product.
- Patch management of embedded OSs/third party software packages for products or product groups. Source code is automatically unpacked and patched according to product specific criterias.
- Release management of products or of the P2SDK itself for specific continued product development.
- Source Code Control integration with organization specific extensions.
- Optional complete GNU gcc toolchain with graphical debugging support through OpenOCD and DDD. Installation is automated by the SDK.
- Download of external source packages (GIT, http, etc.) and local caching of downloaded packages for well known deterministic builds.
- Can be used as top level SDK to aggregate other SDKs and build systems. Flexible integration into existing build systems/SDKs for easy adoption in a mature organization where non-disruptive production is key.
- Built in hierarchical help system for inclusion of addition help for extensions and make targets.
- Full Android app development on both emulator and devices.
- Extensive support for embedded development.
- Completely dependency driven SDK architecture for accurate builds all the time.
- Support and easy integration of Prestinion and third party software components and libraries.



PRESTINION
A Communications Company

555 Pilgrim Drive, Suite C
Foster City, CA 94404
USA

www.prestinion.com
info2me@prestinion.com
Tel +1 408 757 0106

About Us

Prestinion, Inc. is a leader in enabling IoT/IoE technologies for growth in innovation and business opportunities. Prestinion's strong background in software services enables unprecedented know-how in SDK architecture and design. Headquartered in Foster City, Silicon Valley, California, the company has partnered with major semiconductor and systems companies and has customers ranging from fortune 500 companies to small startups.

Linux