BSP DEVELOPMENT SIMPLIFIED & ACCELERATED



Automated Device Driver Generation



3X



Automated Device Driver Generation



5X



Automated Device Driver Generation

Automate Device Driver Code Generation By

95%



Trends In System Design Requires Rapid BSP Development

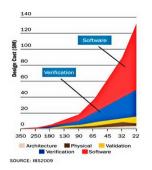


Shorter Product Lifecycles

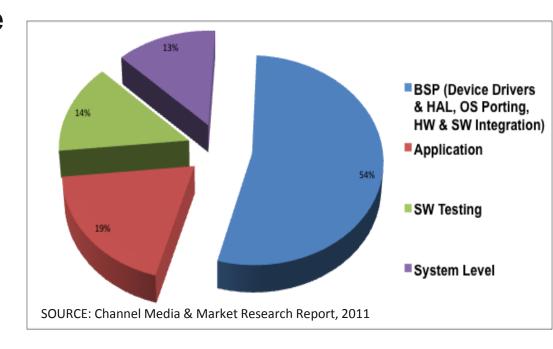




Applications are the Key
Differentiators



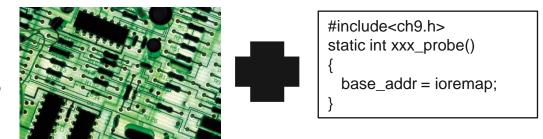
Rising Share of Software Costs





Challenges In BSP Development

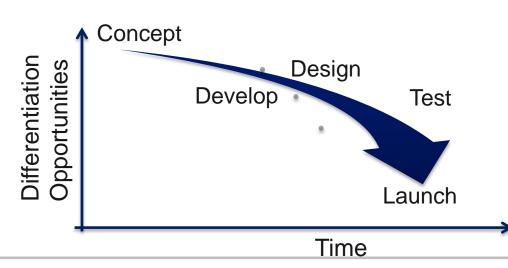
Integration Challenges



Significant Investment

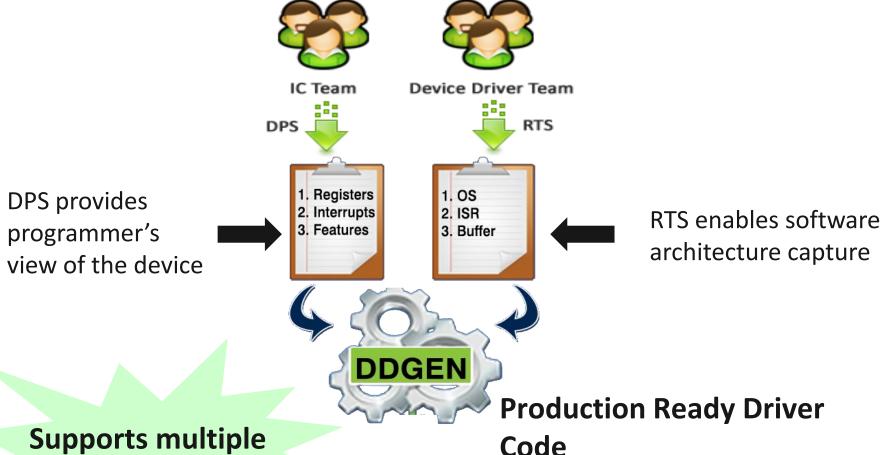
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Delayed Product Rollout





Vayavya's Solution – Automating Device Driver Generation



Supports multiple operating systems

Correct-by-Construction, Optimized for Performance - Readable, Maintainable, Customizable



Vayavya BSP Development Advantage



30%

REDUCTION IN COSTS



40%

REDUCTION IN TIME TO MARKET



95%

AUTOMATED DRIVER CODE



4X-5X

LESSER
EFFORT
FOR NEW
BOARD O/S



10X

FASTER
SUPPORT
FOR
DERIVATIVE
BOARDS
AND SOC



Vavavya DDGEN Delivers

Readability

- Highly readable code easy modification
- Doxygen compliant quick API html

QOR

- Performance equivalent to hand-written driver code
- Code size comparable as well

Ease of Use

- DPS, RTS are text files
- Legacy Register spec automatically imported
- Detailed application notes

Debugability

- Code instrumented with debug statements
- Debug Methodology guide
- Module for register/descriptor probing



Representative Clients





Device Classes Supported

Device Class	Devices
Core devices	UART, Timers, Clocks, DMA, etc.
Bus	I2C, SPI, USB2.0, USB 3.0
Interfaces	Ethernet, SDIO, SD, MMC
Peripherals	Video, Audio

- For unsupported device classes, DDGEN can still generate
 - Register access code, basic ISR and driver registration code
- Flexible architecture enables new device class/OS support in a matter of weeks



About Vayavya Labs



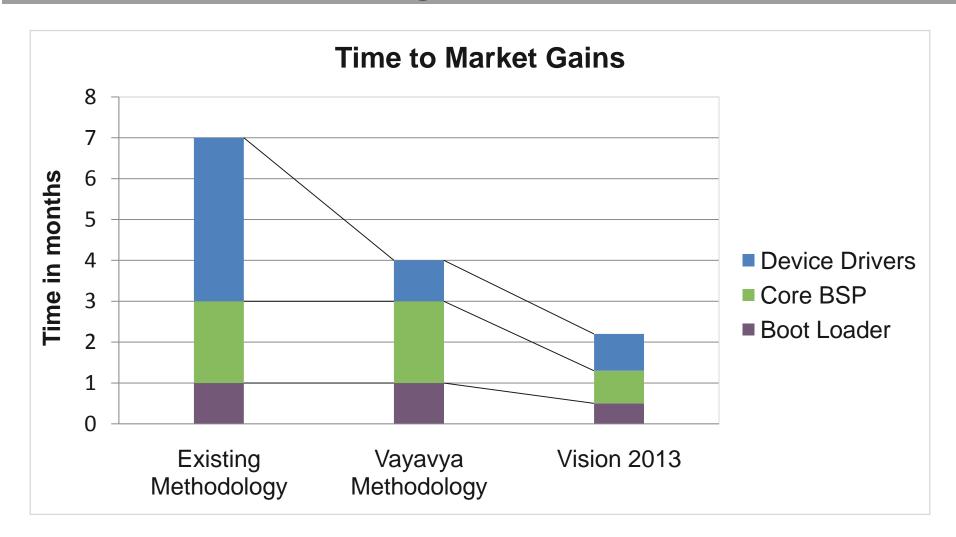




- Founded in July 2006, privately held, profitable
- Management team with strong background in DTV and STB solutions

- Patented device driver synthesis technology
- Presence in USA, India & Japan

Our Quest To Reduce Design Bottlenecks Continues...



To help you optimize your system design investments



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