

Board Support Package (BSP) development



ORGANIZATION:

The customer develops and manufactures lines of processors and systems on a chip (SoC), based on the ARM, PowerPC architectures, and own proprietary architecture, navigation modules, and neural networking embedded solutions.



INDUSTRY:

Semiconductors

CHALLENGE:

The organization produces developer boards for each of their chips to simplify the first steps in software development for customers. For such boards, it is necessary to manufacture specialized software for basic hardware support which includes:

- primary and secondary bootloaders,
- an operating system core with drivers for all SoC's devices,
- the basic file system.

The customer needed to develop BSPs (Board Support Packages) for several systems on a chip of their own products in time and didn't have enough qualified staff for this issue.

SOLUTION:

The customer ordered BSP development from our professional team (an architect and 3 developers). We have developed Board Support Packages for three boards based on PowerPC and ARM architecture, among which are U-Boot loaders, Linux cores, and file systems, drivers, and plugins for them.

BENEFITS:

The customer got software in time and expanded the market of their development boards because they started selling boards with the Linux operating system in addition to bare boards.

TECHNOLOGIES:

Linux, C/C++, U-Boot, Debian, Yocto, Python

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