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Supervisor Binary Interface(SBI) extension in RISC-V

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This is a proposal to make SBI a flexible and extensible interface. It is based on the foundation policy of RISC-V i.e. modularity and openness. The current RISC-V SBI only defines a few mandatory functions such as inter-processor interrupts (IPI) interface, reprogramming timer, serial console, and memory barrier instructions. Many important functionalities such as power management/cpu-hotplug are not yet defined due to difficulties in accommodating modifications without breaking the backward compatibility with the current interface.

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