

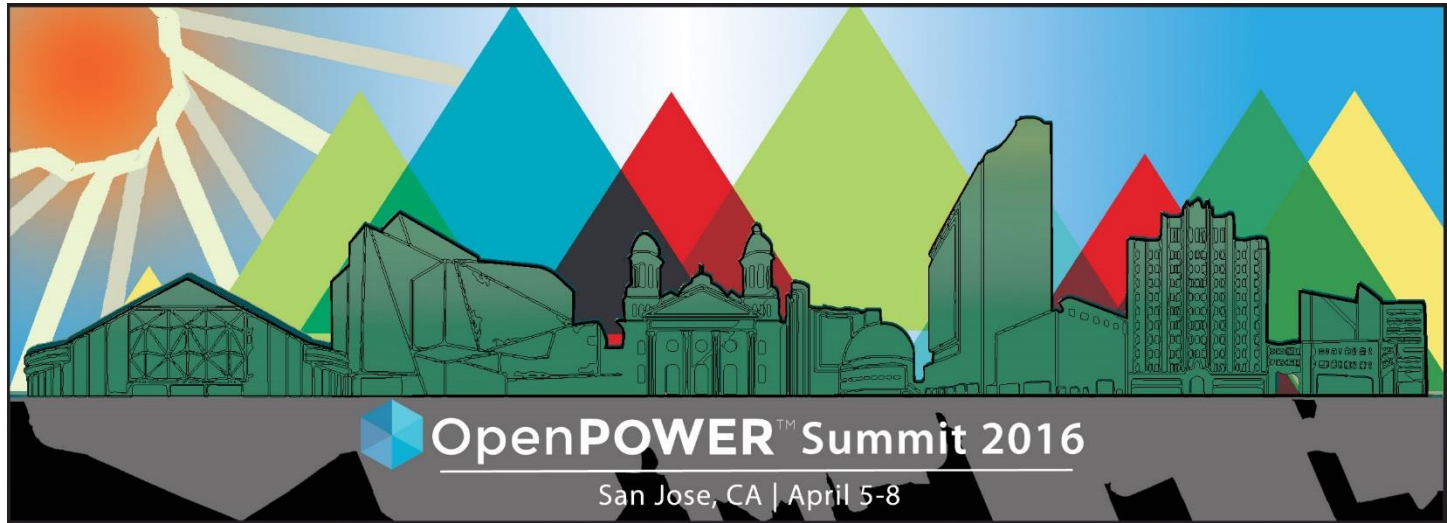


Customizing Petitboot For Bringup

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IBM Open Power Enablement

Revolutionizing the Datacenter



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Petitboot Console for Bringup

- Built-in hardware control resources
 - Devmem for reading/writing memory
 - I2C tools
 - Flash/pnor tools
- Lspci/setpci for PCIe endpoints
- Add code/scripts using buildroot to include in PNOR
 - May be limited by available pnor free space
- Create Petitboot plugin (V 1.7 and later)
 - Load via NFS or USB mount

Typical Bringup Example Scenarios

- Get/set fan controller via I2C
- Initialize EEPROM for embedded PCIe switch
- Verify/diagnose PCIe link training issues
- Get/set I2C mux controls and gpios
- Verify MRW and device tree configuration

Tool Customization Best Practices

- Use MRW or configuration files to handle setup
 - Automatic access to new environment
 - Use reference designs as examples
- Limit and identify dependencies
 - Verify required levels of Petitboot, Busybox etc.
- Provide source code via GitHub