



# Software Ecosystem Overview

# Rich RISC-V Ecosystem Available Today

Training  
Academia  
Research

**CI/Testing**  
Buildbot

**Perf Tools**  
gprof  
Sparta

**Simulators**  
SAIL  
EMU

**Compilers**  
SPiKE  
GCC  
LLVM

HPC  
Consumer  
Data Center  
IoT  
Networking

**Applications**  
SSH, Open vSwitch, CBPH, Apache

**Infrastructure**  
docker, redis, MySQL

**Runtimes**  
Python, PHP, OpenJDK, SPDK, DDPK, OpenSSL

**Operating Systems**  
android, Linux, FreeBSD, Zephyr, RTOS, debian

**Hypervisor**  
KVM

**Boot**  
OpenSBI, U-Boot

**SAIL Golden Model**



**Architecture Tests**  
RISC-V COMPATIBLE

RTL  
DV  
Implementation Design & Microarchitecture



Silicon  
Soft IP

**Reliable, Serviceable, Diagnosable**

**Performant**

**Secure**

**Debuggable**

Services

# Software Stack Examples

