

欢迎第一次加入的伙伴(开会时请从下一页开始展示)

- 开放编辑, 直接点击 request for edit 然后在东亚时区群里at吴伟
- 如果没有找到自己的内容分类, 可以添加1-2页在最开始或中间
- 欢迎在开始的前5分钟进行自我介绍
- 日常八卦在东亚时区RISC-V双周同步微信群中, 欢迎加入

东亚时区RISC-V双周会

2025年01月09日·第 95 次

<https://github.com/cnrv/RISCV-East-Asia-Biweekly-Sync>

Host: 程龙灿

Organizer: PLCT Lab plct-oss@iscas.ac.cn

会议议程(15:00 - 16:00)

- 自我介绍、等待参会者接入、非技术话题八卦(没有的话就直接跳过)
- RVI 的更新和八卦(基本上跟东亚双周会群内消息同步)
- Unratified Specs 的参考实现进展
- 东亚地区小伙伴的项目更新
- 自由讨论

RISC-V International 同步、全球开源社区八卦(陈逸轩)

- [用仅0.03美元的 RISC-V 微控制器启动 Acer N30 PDA。](#)
- SiFive P550 开发板介绍[视频](#)
- [Ubitium将研发集 GPU、DSP 和 FPGA于一体的RISC-V芯片。](#)
- [Inspire Semi退市后加大RISC-V AI 芯片投入资金。](#)

RISC-V 中文社区的同步与八卦(张宇溪)

- 香山开源项目在硅谷科技圈引起的反思

<https://mp.weixin.qq.com/s/xey-llx1PbaVVOqOWRRDXw>

- 发挥标准优势 繁荣产业发展——首届RISC-V产业发展大会在北京亦庄召开

<https://mp.weixin.qq.com/s/HqZoqrEe75HzKh0ZNFRZmw>

2030年规模超500亿元！北京亦庄发布RISC-V产业发展行动计划

<https://mp.weixin.qq.com/s/P3l2XBxBSSjK1-71C7QPvw>

- SiFive 正式成立中国分公司, 中文名称定为「芯伍科技」

https://mp.weixin.qq.com/s/sK2Hhs1_JMsmL84Dv8xTng

- 南京！长城汽车成立芯片公司！紫荆半导体落户！

<https://mp.weixin.qq.com/s/AfSBvx2zrafE8a8fv2TRoQ>

RISC-V 韩语社区的同步与八卦

-

请此页编辑者删除水印

RISC-V 德语社区的同步与八卦(罗云翔)

- Embedded World Germany, March 11 - March 13, Nuremberg Germany
<https://events.linuxfoundation.org/riscv-at-embedded-world/>
- Preparing for HPC on RISC-V: Examining Vectorization and Distributed Performance of an Astrophysics Application with HPX and Kokkos, Date Added to IEEE Xplore: 08 January 2025 (Workshops of the International Conference for High Performance Computing, Networking, Storage and Analysis)
IPVS, University of Stuttgart and some authors from USA
<https://ieeexplore.ieee.org/document/10820750>
- SPARKLE: 400 RISC-V GIPS with 1,024 Barrel Processors on a single Datacenter FPGA Card
, Date Added to IEEE Xplore: 03 January 2025 (2024 IEEE 17th International Symposium on Embedded Multicore/Many-core Systems-on-Chip (MCSoc))
Department of Engineering, Heidelberg University
<https://ieeexplore.ieee.org/document/10819595>
- BRISKI: A RISC-V barrel processor approach for higher throughput with less resource tax, Date Added to IEEE Xplore: 03 January 2025 (2024 IEEE 17th International Symposium on Embedded Multicore/Many-core Systems-on-Chip (MCSoc))
Department of Engineering, Heidelberg University
<https://ieeexplore.ieee.org/document/10819593>
- An FPGA-Based RISC-V Instruction Set Extension and Memory Controller for Multi-Level Cell NVM, Date of Conference: 14-17 December 2024 (2024 International Conference on Microelectronics (ICM))
Chair for Embedded Systems (CES), Karlsruhe Institute of Technology (KIT)
<https://ieeexplore.ieee.org/document/10815826>



RISC-V 日语社区的同步与八卦

.

请此页编辑者删除水印

RISC-V 中国峰会进展(吴伟)

请此页编辑者删除水印

GCC 进展

- 更新了Profiles格式规范, 目前与LLVM实现保持一致

<https://github.com/riscv-non-isa/riscv-toolchain-conventions/pull/36>

- IFUNC的glibc支持仍在讨论中, 预计会在今晚psABI会议中同步

https://patchwork.sourware.org/project/glibc/patch/tencent_EA6F621A42D41AFDF99A0561B51F1CB57109@qq.com/

- 更新了新32位的实现说明, 会在今晚psABI会议中同步

<https://github.com/riscv-non-isa/riscv-elf-psabi-doc/pull/381>

- 新增加了MIPS的两个自定义扩展Xmipsmove与Xmipsisp到RISC-V

<https://github.com/riscv-non-isa/riscv-toolchain-conventions/pull/69/files>

Clang/LLVM 进展 (PLCT)

- [RISCV] Add support of Sdext, Sdtrig extensions
<https://github.com/llvm/llvm-project/commit/2fae5bdea7c2>
- [RISCV] Add -mcpu=sifive-p550
<https://github.com/llvm/llvm-project/pull/122164>
- [RISCV] Add Qualcomm uC Xqciac extension
<https://github.com/llvm/llvm-project/commit/1557eeda738d>
- [RISCV] Add Qualcomm uC Xqcicli extension
<https://github.com/llvm/llvm-project/commit/532a2691bc01>

QEMU/Spike 进展(呼唤志愿者)

请此页编辑者删除水印

Sail/ACT进展 (PLCT)

- Sail Roadmap

<https://github.com/riscv/sail-riscv/wiki/Roadmap>

- Configuration
- Testing & Infrastructure
- Extensions
- Verification Interface

- Sail configuration system

`config a.b.c : T`

`sail --config c.json <files>`

<https://github.com/remis-project/sail/pull/865>

- CTG reproducible

<https://github.com/riscv-non-isa/riscv-arch-test/pull/570>

- Add support Zdinx extension (发音为“z-d-in-x”)

<https://github.com/riscv-non-isa/riscv-arch-test/pull/499>

- Add support Zhinx extension

<https://github.com/riscv-non-isa/riscv-arch-test/pull/496>

- Add support Zcd extension in RV64

<https://github.com/riscv-non-isa/riscv-arch-test/pull/587>

- Add support for Zcf and Zcd extension

<https://github.com/riscv-non-isa/riscv-arch-test/pull/497>

V8 for RISC-V 更新(邱吉、陆亚涵)

1. 6110219: [riscv][maglev] Optimize math.round | <https://chromium-review.googlesource.com/c/v8/v8/+6110219>
2. 6131699: [riscv] Refactor set target address code | <https://chromium-review.googlesource.com/c/v8/v8/+6131699>
3. 6123734: [riscv] Fix invalid trampoline pos | <https://chromium-review.googlesource.com/c/v8/v8/+6123734>

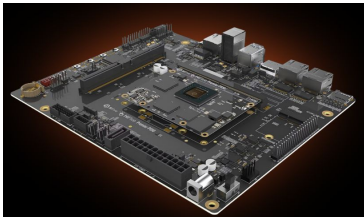
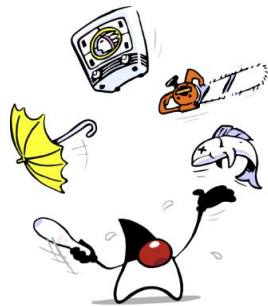
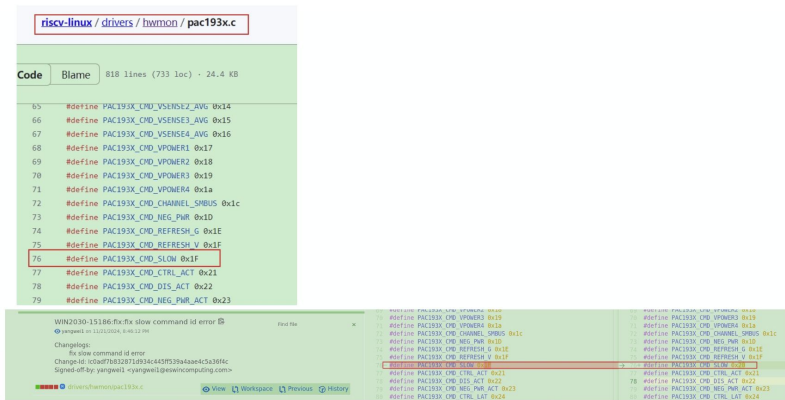
Spidermonkey for RISC-V更新（邱吉、陆亚涵）

请此页编辑者删除水印

OpenJDK on RISC-V (PLCT 杨飞)

1. Authored/Co-authored JDK-mainline PRs:

- <https://github.com/openjdk/jdk/pull/21731> (8343115: SkipIfEqual class is not used after JDK-8335946)
- <https://github.com/openjdk/jdk/pull/21732> (8343121: RISC-V: More accurate max size for C2SafePointPollStub and C2EntryBarrierStub)
- <https://github.com/openjdk/jdk/pull/21733> (8343122: RISC-V: C2: Small improvement for real runtime callouts)
- <https://github.com/openjdk/jdk/pull/21777> (8343242: RISC-V: Refactor materialization of literal address)
- <https://github.com/openjdk/jdk/pull/21818> (8343415: RISC-V: Increased maximum size of C2EntryBarrierStub by four)
- <https://github.com/openjdk/jdk/pull/21822> (8343430: RISC-V: Remove old trampoline call)
- <https://github.com/openjdk/jdk/pull/21847> (8343471: RISC-V: compiler/cpuflags/TestAESIntrinsicsOnUnsupportedConfig.java fails after JDK-8334999)
- <https://github.com/openjdk/jdk/pull/21863> (8343502: RISC-V: SIGBUS in updateBytesCRC32 after JDK-8339738)
- <https://github.com/openjdk/jdk/pull/21966> (8343805: RISC-V: JVM crashes on startup when disabling compressed instructions)
- <https://github.com/openjdk/jdk/pull/22025> (8343964: RISC-V: Improve PrintOptoAssembly output for loadNKlassCompactHeaders node)
- <https://github.com/openjdk/jdk/pull/22053> (8344074: RISC-V: C1: More accurate _exception_handler_size and _deopt_handler_size)
- <https://github.com/openjdk/jdk/pull/22188> (8344371: RISC-V: compiler/intrinsics/chacha/TestChaCha20.java fails after JDK-8343555)
- <https://github.com/openjdk/jdk/pull/22202> (8344393: RISC-V: Remove option UseRVVForBigIntIntegerShiftIntrinsics)
- <https://github.com/openjdk/jdk/pull/22096> (8344169: RISC-V: Use more meaningful frame::metadata words where possible)

[illegible]

Go community work update (2024/11/28)

- Vector instructions

- cmd/internal/obj/riscv: update references to RISC-V specification #631935 [reviewed]
- cmd/internal/obj/riscv: rework instruction encoding information #622535 [merged]
- codegen
 - cmd/internal/obj/riscv: implement vector configuration setting instructions #631936 [reviewed]
 - cmd/internal/obj/riscv: implement vector load/store instructions #631937 [reviewed]
- runtime [plan]

- Go runtime syscall with ABI internal

- prerequisites: tools #620056 [merged]
- runtime: #620755 [merged]

- Misc

- internal/bytealg: optimize IndexByte for riscv64 #561275 [merged]

请此页编辑者删除水印



RuyiSDK (Xi Jing, PLCT)

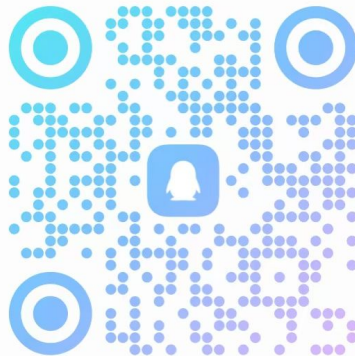
- RuyiSDK 包管理器 V0.25 [released](#):
 - 新增了 ruyi config 子命令, 方便用户通过命令行或脚本方式查询、修改 RuyiSDK 包管理器配置。该命令用法受到了 git config 的启发, 详见 ruyi config --help 输出。
 - 新增了 ruyi telemetry 子命令, 方便用户通过命令行或脚本方式查询、变更遥测偏好。详见 ruyi telemetry --help 输出。
 - 特别地: 在您表明遥测偏好前, 每次运行 ruyi 您都会收到提醒。您现在可以通过 ruyi telemetry off 关闭遥测数据收集, 或通过 ruyi telemetry consent 明确接受遥测数据收集与上传了。
 - 修复了搭配 arpy 1.x 使用时, 无法解压 Debian 格式软件包的问题。
 - 新增了两篇规范文档: RuyiSDK 官方软件源的包版本规范, 以及 RuyiSDK 中的板卡型号、系统镜像命名规范。您可移步 RuyiSDK 包管理器的仓库 docs/ 目录阅读。
- RuyiSDK IDE [V0.0.2](#) 版本发布, 主要变更如下:
 - 针对 Milk-V Duo example 示例在 RuyiSDK IDE 中的编译器安装配置、构建、目标程序传输、运行等进行验证并创建使用文档。
 - 在 RuyiSDK IDE 的 Welcome 中定制了 RuyiSDK 和 Milk-V Duo 的文档链接。
- 操作系统支持矩阵
 1. CI: Add CI for package index sync [ruyisdk/support-matrix#120](#)
 2. fix typo in Duo_S link [ruyisdk/support-matrix#121](#)
 3. visionfive2: Add NixOS [ruyisdk/support-matrix#123](#)
 4. m0sense: Add RT-Thread [ruyisdk/support-matrix#125](#)
 5. BPI-F3: bianbu update to 2.0.4 [ruyisdk/support-matrix#126](#)
- 社区: 新增QQ交流群, 欢迎加入一起交流
- PLCT-RevyOS小队: 面向 TH1520 的 RuyiSDK 操作系统新版本发布, 内核从 5.10 升级到了 6.6。
 - meles最新镜像下载地址: <https://mirror.iscas.ac.cn/revyos/extra/images/meles/20241229/>
 - lpi4a最新镜像下载地址: <https://mirror.iscas.ac.cn/revyos/extra/images/lpi4a/20241229/>
 - [乙巳年新目标, RevyOS 许愿清单上线!](#)

详见RuyiSDK双周进展报告: <https://github.com/ruyisdk/wechat-articles>



RuyiSDK技术001群

群号: 544940413



openEuler RISC-V (周嘉诚)

Status / 20240109

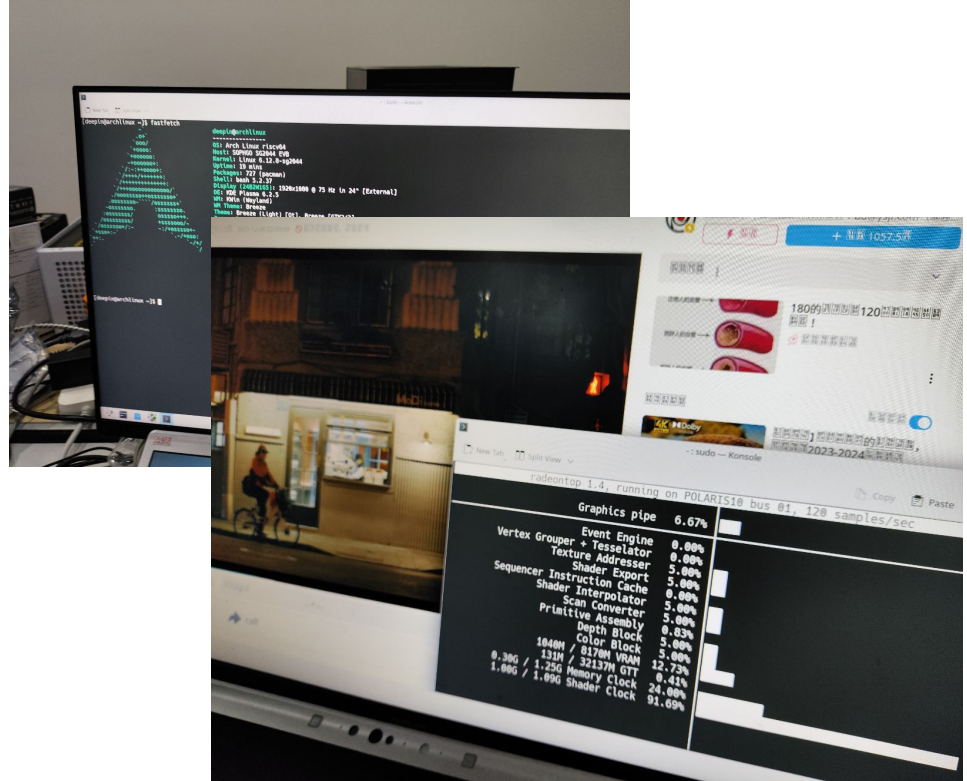
- openEuler 24.03 LTS Service Pack 1:
 - Official (RVA20): Released 🎉 [\[DL Link\]](#)
 - Preview (RVA22+V): Preparing for final launch
- Pkgs & HW
 - kernel: added zicbom & modern amdgpu support
 - ROCm: mostly upgraded to 6.3.0, added llama.cpp & pytorch support
- Following releases in 1H'25
 - Q1 - 24.03 follow-up [community release](#) for supporting more devices w/ *vendor kernels, proprietary drivers, etc.*
- Features:
 - 6.6-based [common kernel](#) for QEMU, SG2042 (Pioneer) & TH1520 (LPi4A)
 - UEFI-supported Hardware & QEMU images
 - [Penglai TEE](#)-enabled firmware variants
- Images:
 - [UEFI ISO](#)
 - [UEFI](#) qcow2 Image w/ [Penglai TEE](#)
 - Legacy-boot Images for Pioneer & LPi4A
- 1. [rv64gcv_zicbop_zicboz_zicsr_zihintpause_zihpm_zba_zbb_zbs](#)

Gentoo for RISC-V 的情况更新（Gentoo 小队）

请此页编辑者删除水印

Arch Linux RISC-V (Felix & PRZ)

- [core] 260 / 265 (98.11%)
- [extra] 13756 / 14079 (97.71%)
- Python 3.13 rebuild almost finished.
- Rust cross compilers for x86_64-{musl,gnu} are [provided](#) now.
- More ROCm 6.2.x components packaged. But upstream [refuses](#) to merge incremental changes for clr.
- Intel GPU packages [removed](#) from blacklist to allow further porting for Xe graphical cards.
- Experimental Arch devtools support for building packages for unsupported architectures is [submitted](#).
- Arch on SG2044 ----->



Arch Linux RISC-V (Felix & PRZ) - Electron



请此页编辑者删除水印

Fedora on RISC-V status update(20250109)

- RPM packaging

- Koji Status: **F41, GA on Nov 12**
- **F41: 23460/24320[96.46%] srpm**
- **F42/Rawhide: 0/24532 srpm**
- <https://www.fedoravforce.com>

- main package version:

- Toolchain: gcc-14.2.1-3、glibc-2.40-4、binutils-2.43.1-3
- libffi-3.4.6-3
- java-11-openjdk,java-17-openjdk,java-21-openjdk
- java-1.8.0-openjdk
- java-latest-openjdk
- perl-5.40.0-511
- python3.13-3.13.0-1
- llvm-19.1.0-1
- golang-1.23.3-1
- rust-1.82.0-1

- Desktop support Fedora41:

- **DONE**: XFCE/LXDE/LXQT/Cinnamon/Sway/Budgie /Sugar/GNOME/Mate
- **Testing**:KDE/Deepin
- **Key Desktop App[need to update]**
 - firefox-131.0-2
 - libreoffice-24.8.3.2-2
 - Thunderbird-115.11.1-1
 - chromium-126.0.6478.182-2

- Image and REPOs :

- <https://images.fedoravforce.com>
- <https://openkoji.iscas.ac.cn/pub/dist-repos/dl>
- <https://mirrors.iscas.ac.cn/fedora-riscv>
- <https://dl.fedoraproject.org/pub/alt/risc-v/fedora-r-emix>

- ROS/ROS2 upgraded to F41

- [Sail](#) for rawhide**[UPSTREAMING]**

- function testing for F41:

- Podman**[pass]**, Image: [fedora-rv64](#) (f41)
- Ceph**[ONGOING]**
- K8s**[ONGOING]**

Fedora-V Force

Fedora for RISC-V GRUB



Running on

StarFive JH7110
SpacemiT K1
ES WIN EIC7700
QEMU

Debian for RISC-V(于波)

- Official port update
 0. Python 3.13 as [default](#) version
 1. Trixie-security [support](#) riscv64
 2. [Warning] Is riscv build fast enough?
[\[1\]](#)[\[2\]](#)
- Debci
 1. New three p550
 2. [Running](#) well
- Some works
[RedleafOS](#) integration

```
vimer@debian:~$ cat /etc/apt/sources.list
deb https://mirror.nju.edu.cn/debian trixie main
deb-src https://mirror.nju.edu.cn/debian trixie main

deb https://mirror.nju.edu.cn/debian trixie-backports main
deb-src https://mirror.nju.edu.cn/debian trixie-backports main

deb http://security.debian.org/debian-security trixie-security main
deb-src http://security.debian.org/debian-security trixie-security main

deb https://mirror.nju.edu.cn/debian trixie-updates main
deb-src https://mirror.nju.edu.cn/debian trixie-updates main
```



RevyOS (程龙灿)

- new image
 - LicheePi 4a : 20241229: <https://mirror.iscas.ac.cn/revyos/extra/images/lpi4a/20241229/>
 - Milk-v meles 20241229: <https://mirror.iscas.ac.cn/revyos/extra/images/meles/20241229/>
 - new kernel(6.6)、new sdk(2.0.2)
 - Milk-v pioneer20241230: <https://mirror.iscas.ac.cn/revyos/extra/images/sq2042/20241230/>
- Community Addition
 - wishlist: [许愿清单上线](#)
 - known compatibility issue: [新增已知兼容性问题列表](#)
- ROS2
 - RevyOS maintains two ROS2 distributions: Humble and Jazzy.
 - jazzy build 1303/1401 > 1388/1481 (93%)
 - humble build 1477/1654 > 1548/1719 (90%)
 - CI test results:

Pass: (39,312/39,568) > (39,323/39,578)

Failed: 145, Skipped:110

Total time: 6.3 hours

RevyOS supported devices

[Image download directory](#)

- 1、LicheePi 4A
- 2、LicheePi Cluster 4A
- 3、beaglev-ahead
- 4、Milk-V Pioneer
- 5、Milk-V Meles
- 6、LicheeConsole4A
- 7、RISC-V Book
- 8、LicheeBook

SD card support

- 1、LicheePi 4A
- 2、beaglev-ahead
- 3、Milk-V Meles
- 4、LicheeConsole4A

Mainline support

- 1、LicheePi 4A
- 2、Milk-V Pioneer

Alpine for RISC-V (Meng Zhuo -- 不在线)

- Statistic on aports RISC-V support (2025-1-8) [\[manifest\]](#)

Section	aarch64	riscv64(12-25)	riscv64(1-8)
main	5534	5461	5466
community	19755	18388	18451
test	7037	5851	5894

- Progress A-Z (405项已全部完成)

News:

- Enable blocked by:

- qt6-webqtengine (23) (已提issue)
- openjdk8 (14)
- luajit2 (6)(等待PR合并)
- ocaml (9)(无法bootstrap)
- R (2) (上游支持)
- picolisp (2)

- Alpine 3.21.2 released in 2025-1-8



Sophgo Linux Upstream Status Update (汪辰)

<https://github.com/sophgo/linux/wiki> [Last updated: Dec/25/2024]

CV18XX Series

- N/A

SG2042

- 只有一些针对 PCIe driver 的邮件列表讨论

SG2044

- N/A

RT-Thread (RISC-V) Upstream Status Update (汪辰)

PR list:

- bsp: cvitek: doc update: <https://github.com/RT-Thread/rt-thread/pull/9836>

RFC discussion

- [Feature] RTT 文档优化: <https://github.com/RT-Thread/rt-thread/issues/9871>
- [Feature] 改进自动化测试以及 ci 看护:
<https://github.com/RT-Thread/rt-thread/issues/9775>

Box64 RISC-V 进展

- 用 RVV 和 XTheadVector 实现了 MMX 指令
- SIMD 指令优化
 - PSLL*, PSRL*
 - PUNPCK*
- 改进 TSO 模拟性能
 - 重做 STRONGMEM 机制, 减少栅栏指令数量
- Benchmark
 - 对比扩展指令集对 DBT 性能的影响

请此页编辑者删除水印

FW相关更新（王翔）

- opensbi

- 修复一处函数申明和函数定义不一致

<https://lists.infradead.org/pipermail/opensbi/2024-December/007890.html>

- fdt_parse_aplic_node函数内数据初始化的修正

<https://lists.infradead.org/pipermail/opensbi/2025-January/007901.html>

- 从DT解析内存区域的权限时保留权限SBI_DOMAIN_MEMREGION_ENF_PERMISSIONS

<https://lists.infradead.org/pipermail/opensbi/2025-January/007903.html>

RustSBI团队进展(洛佳)

- HAL组(朱俊星)
 - 为bouffalo-hal(BL808, etc)添加PSRAM初始化功能
 - 为bouffalo-loader(BL808, etc)添加TF卡初始化与文件加载功能: 扫描TF卡加载DTB和bootargs.txt文件, 以启动TF卡内的Linux内核
 - 提供命令行界面, 支持引导程序的基本调试功能, 增加reload、read/write、print、bootargs、boot命令
 - 添加FWFT 扩展支持的 SBI 实现
- 发行版组(邢志昂)
 - 重构prototyper启动逻辑和设备树解析逻辑, 支持使用 PMP 保护 prototyper
 - 为 prototyper 提供可重定向代码支持
 - 增加了 FreeBSD 的支持文档
 - 修复一些 bug

RustSBI团队进展(洛佳)

- 大模型组(马铭芮)

- 实现了对 PDF 文档的向量化存储功能和文档的分块与检索,集成了 Qwen 作为 Embedding 模型进行检索和 Gemma2 作为生成模型进行回答的生成,并建立了用户交互界面/张子涵
- 调研了系统面向领域的现存文档范围与格式,进行了文档解析部分的优化,实现了对 LaTeX、AsciiDoc 等格式的解析支持/任潇
- 针对组内建立的 RAG 系统进行了不同开源模型测试和系统故障排查,解决了系统在解析流程中存在的部分逻辑问题/邝嘉诺

- others

- 举办社区活动:三场 RustSBI 在线分享会
- 我们将在华中科技大学 (HUST) 举办 WHLUG 线下社区活动,详情见以下链接

<https://mp.weixin.qq.com/s/EzOkwHnDTPH7-Qr10DdBKq>

香山开源RISC-V处理器 - ICT / PCL(提交人不在线)

香山开源技术讨论群:
879550595 (QQ)

- 功能

- 前端

- 修复一个 MMIO 取指 + 16b 指令下等待 commit 条件的问题 (#4072)
 - 修复一个 ICache MSHR 冲刷后 corrupt bit 未冲刷的问题 (#4112)
 - ICache ECC 故障注入(RAS) (#4044)

- 后端

- 修复 CSR 指令未能报出地址翻译异常的问题 (#4118)
 - 修复 hideleg 寄存器中 LCOFI 的读写依赖问题 (#4070), NEMU 也进行相应修复 (NEMU #733)
 - 修复 CSR 改为部分可流水后未能正确响应冲刷流水信号的问题 (#4079)
 - 修复在用户模式 time 寄存器更新出错 (#4132)
 - 修复 lui/flid 指令融合在目的寄存器是零寄存器时行为出错的问题 (#4131)
 - 修复 Hint 类指令错误融合的问题 (#4108)
 - NEMU 修复 SGEI 中断优先级异常问题 (#733)
 - 添加 Top-Down 后端相关硬件性能 计数事件 (#4122)

- 功能

- 访存与缓存

- 完成 Svnapot(支持 2 的幂次大小页的地址翻译)扩展的实现并合入主线 (#4107)
 - 修复 UncacheBuffer 有空项时仍无法入队导致卡死的 Bug (#4096)
 - 修复内存返回数据与异常检查错拍导致误报 guest page fault 的 Bug (#4090)
 - 修复若干向量有关的Bug, 主要包括非对齐、异常处理和部分边界条件等 (#4084)、(#4085)、(#4086)、(#4101)、(#4103)
 - 修复 LoadUnit 中, 因 fast replay 导致的死锁问题 (#4102)
 - 修复一系列 SnpOnce*/SnpStash* 相关的嵌套 Bug (CoupledL2 #306)、(CoupledL2 #308)、(CoupledL2 #309)
 - 修复 MCP2 打开的情况下, 替换算法 retry 信号没有维持 2 拍的 Bug (CoupledL2 #303)
 - 修复 VBOP 预取访问 TLB 时 PMP / PMA 检查的连线错误 (CoupledL2 #312)
 - OpenLLC 支持 Top-Down 性能分析 (#4113)

- PPA优化

- 后端

- 将浮点/向量 Regfile 改为分 4 块 (#4088)
 - 修复 rob 中出队刷新流水线以及向量异常时序问题 (#4075)
 - 将判断向量复杂译码判断信号改为由指令编码直出 (#4066)
 - 将 CSR 输出到前端/访存的读写地址/数据打拍 (#4119)

- 访存与缓存

- 删除 MainPipe 中重复信号 (#4117)
 - 减少 LoadQueueReplay 项数, 面积减小 2.85%, 功耗降低 1.59% (#4082)

banshanjdk-8 让你的 java8 程序在 RISC-V 平台极限加速

请此页编辑者删除水印

Chisel and Additional Technology / Sequencer(提交人不在线)

- Chisel
 - Scala MLIR + CIRCT binding migration
 - zaozi prototype for Scala 3 version of Chisel
- T1
 - HLMC28 tapein
 - Attached matrix roadmap

OpenHW & OpenHW Aisa Working Group

请此页编辑者删除水印

甲辰计划进展(吴伟)



请此页编辑者删除水印

自由讨论 / AOB

BACKUP

准备加入更多的国际开源组织进行同步观测

欢迎追加或提议