A Bibliography of Publications about the RISC-V Open Source Computer Architecture

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Title word cross-reference

3 [ZBA+20].

000-core [DAKK19].

1 [DtEt22].


32/64 [MG22]. 32/64-bit [MG22].

4096-Core [ZSB21].

511-Core [DXT+18].

64-bit [MG22].

ABI [AVS+22]. Abstraction [HZS+19].
Accelerating
[DTet22, DAKK19, ERGK21, KKC+16].
Accelerator [BDdD19b, DXT+18, KBBA17, PGW+20, RSRT19]. Achieving
[SZHB21]. Agile [LWC+16, PGW+20].
ALU [RTRM19]. Android [WWN23].
application [DL17]. application-specific
[DL17]. Approach [LWC+16].
Architectural
[KKK+17a, KKK+17b, KKK+17c].
Architecture [FHL+22, PW17, ZSB21].
Architectures [DXT+18, ERGK21, KKK+17a, KKK+17b, KKK+17c, GMFC23].
ARITH [BBdD17, TBL19]. ARITH-26
[TBL19]. Arithmetic
[BBdD17, GD19, TBL19]. Atlas [PW17].
Attacks [AVS+22]. Aurora [GMFC23].
Autovectorization [AS22].

backend [TMK+16]. bandwidth [ZZB+20].
Based [JHQ23, RTRM19, RSRT19, ZZB+20].
Binary [KGHRM23]. bit [MG22].
Build [Szk21]. Building [LWC+16, ZWB19].

CakeML [TMK+16]. Can [Szk21].
Celerity [DXT+18]. channel [Bis21].
Complete [FHL+22]. Composable [ZWB19]. Compromising [Bis21].
Coprocessor [BDdD19a, DEC+18]. Core [DXT+18, GCR+23, TGRK19, TGRK21, ZSB21, DAKK19]. Cores [SZHB21].
Correction [KGHRM23]. CPU [Szk21].
Cryptographic [Bis21]. Cryptography [KGHRM23].

Deflection-Routed [KG17]. Design [DXT+18, ZWB19]. Directional [KG17].
dispatch [KKC+16]. Dot [KBB17].
Dynamic [BDdD19a].

Embedded [SMP22, Ano20, KKC+16].
Environments [AVS+22]. Error [KGHRM23]. Error-Correction [KGHRM23]. Esperanto [DTeEt22].
ET-SoC-1 [DTeEt22]. Evaluate [VOK+22].

Floating-Point [Ano20, SEG20, ZSB21, BDD19b]. Flow [FHL+22]. FPGAs [KG17, RTRM19, ZZB+20]. FreeBSD [Hor20]. FreeBSD/RISC [Hor20].
FreeBSD/RISC-V [Hor20]. Full [SZHB21].
fully [Ano20].

Galois [KGHRM23]. gem5 [RSRT19].
Generation [GD19]. Getting [Hor20].

Hardware [KBB17, TML+17a, TML+17b, TML+17c, DL17]. Heterogeneous [ZBA+20]. High [FHL+22, ZZB+20].

IEEE [BBdD17, TBL19]. ILA [HZS+19].
Implement [VOK+22]. Infrastructure [ZZB+20]. instantiation [DL17].
Instruction [HZS+19, JHQ23].
Instruction-Level [HZS+19]. Integration [ZBA+20]. Integrity [FHL+22].
interpreters [KKC+16]. IoT [ABP22]. IP [Bis21].
ISA [ABP22, KGHRM23, SZHB21].
TML⁺¹⁷a, TML⁺¹⁷b, TML⁺¹⁷c. Issue [SZHB21].

Japan [TBL19]. July [BBdD17]. June [TBL19].

Kyoto [TBL19].

Languages [WWN23]. layer [VOK⁺²²].

Leakage [Bis21]. Left [AS22]. Level [HZS⁺¹⁹]. Library [SEG20, Ano20].

Lightweight [KKK⁺¹⁷a, KKK⁺¹⁷b, KKK⁺¹⁷c, SZHB21].

LLVM [RSRT19]. LLVM-Based [RSRT19].

London [BBdD17]. long [GMFC23].

Low [ABP22, ERGK21].


MEG [ZZB⁺²⁰]. Memory [TML⁺¹⁷a, TML⁺¹⁷b, TML⁺¹⁷c, ZZB⁺²⁰, ZHLR22].


Methodology [RTRM19].

Microprocessors [LWC⁺¹⁶]. MINOTAuR [GCR⁺²³]. ML [DttE⁺²²]. Model [DAKK19, TML⁺¹⁷a, TML⁺¹⁷b, TML⁺¹⁷c].


multiPULPly [ERGK21].

Native [WWN23]. Near [ZZB⁺²⁰].

Near-data [ZZB⁺²⁰]. NEC [GMFC23].

Networks [ERGK21]. Neural [ERGK21].


Non-Binary [KGHRM23]. Numerics [BBdD19a].

Offs [ZHLR22]. Open [DXT⁺¹⁸, PW⁺¹⁷, PGW⁺²⁰, VOK⁺²², ZWB⁺¹⁹].

Open-Source [DXT⁺¹⁸, PGW⁺²⁰, VOK⁺²²].


Performance [AS22, Bis21, FHL⁺²²].


Point [AVS⁺²², Ano₂⁰, SEG₂⁰, ZSB₂¹, BBdD₁₉b].

Poisoning [AVS⁺²²]. Posit [TGRK19, TGRK₂¹]. Post [KGHRM23].


Precision [BBdD₁₉a, BBdD₁₉b].


Processor [ZWB₁⁹]. Processors [DttE⁺²², RTRM₁⁹, Szk₂¹, KKC⁺¹⁶].

Product [KBBA₁⁷]. Programmable [DEC⁺¹⁸]. Programming [WWN₂³].

Protection [Bi₂¹, RTRM₁⁹].

QEMU [Hor₂¹a]. Quantum [KGHRM₂³].

Reader [PW₁⁷]. Recommendation [DttE⁺²²]. Registers [SZHB₂¹].

revolutionize [Gre₂⁰]. Risc [BBdD₁₉b, AS₂², APB₂², Ano₂⁰, DXT⁺¹⁸, DttE⁺²², FHL⁺²², GMFC₂³, Gre₂⁰, GCR⁺²³, JHQ₂³, KGHRM₂³, LWC⁺¹⁶, MG₂², PW₁⁷, PGW⁺²⁰, SPP₂², SZHB₂¹, Szk₂¹, TGRK₁⁹, TGRK₂¹, ZSB₂¹, Zec₂², ZHLR₂², ZBA⁺²⁰].

Risc-V [BBdD₁₉b, AS₂², APB₂², Ano₂⁰, DXT⁺¹⁸, DttE⁺²², FHL⁺²², GMFC₂³, Gre₂⁰, GCR⁺²³, Hor₂⁰, JHQ₂³, KGHRM₂³, LWC⁺¹⁶, MG₂², PW₁⁷, PGW⁺²⁰, SPP₂², SZHB₂¹, Szk₂¹, TGRK₁⁹, TGRK₂¹, ZSB₂¹, Zec₂², ZHLR₂², ZBA⁺²⁰].

RISC-V/Tensor [DttE⁺²²]. RISCV [ZZB⁺²⁰, Hor₂¹a]. RISCV-based
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Saber [ZHLR22]. Scalable [RSRT19].
Scalar [BDdD19b]. Scale [DAKK19].
Scientific [BDdD19b]. Scripting [KKK+17a, KKK+17b, KKK+17c].
Security [FHL+22]. SEGGER [Ano20].
Semantic [SZHB21]. Short [KKC+16].
Short-circuit [KKC+16]. Side [Bis21, JHQ23]. Side-channel [Bis21].
Signal [ABP22]. simulation [MG22].
Singapore [GD19]. Single [SZHB21].
Started [Hor20]. Stream [SZHB21]. STT [ZBA+20]. STT-MRAM [ZBA+20].
Support [KKK+17a, KKK+17b, KKK+17c]. supported [Ano20]. SX [GMFC23].
SX-Aurora [GMFC23]. Symposium [BDdD17, TBL19]. Synchronization [DAKK19]. System [HZS+19, VOK+22, ZBB+20, ZBA+20].
System-on-Chip [HZS+19]. Systems [SMP22].

Timing [Bis21, GCR+23]. tool [MG22].
Torus [KG17]. Trade [ZHLR22].
Trade-Offs [ZHLR22]. TriCheck [TML+17a, TML+17b, TML+17c].
Trisection [TML+17a, TML+17b, TML+17c]. Trusted [AVS+22]. Type [BDdD19a]. Typed [KKK+17a, KKK+17b, KKK+17c].

UK [BDdD17]. Ultra [ABP22, ERGK21].

V [BDdD19b, AS22, ABP22, Ano20].
Variable-Precision [BDdD19a]. variant [Ano20]. vector [GMFC23]. Verification [HZS+19, TML+17a, TML+17b, TML+17c]. verified [TMK+16]. virtual [KKC+16].
Virtualization [SMP22].


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Bo-Yuan Huang, Hongce Zhang, Pramod Subramanyan, Yakir Vizel, Aarti Gupta, and Sharad

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