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AmpereOne® AC04 Operating System Compatibility and Recommended Compilers

AmpereOne AC04 Compatibility with Operating Systems

Ampere® tests the operating systems listed in *Table 1* (subject to change at Ampere's sole discretion).

For a given distribution release, Ampere performs minimal compatibility testing, including installation of the distribution and running a common set of basic operations on bare metal. Compatibility does not include Virtual Machine (VM) installation or testing. **Compatibility testing information is provided only for the convenience of our customers, and Ampere makes no guarantees or warranties of any kind (and disclaims all liabilities) related to this testing or any related information, including, but not limited to, warranties regarding accuracy, completeness, compatibility, performance, or sufficiency for any application, use, or purpose**. OEM and CSP partners are expected to validate and certify the behavior of operating systems on their platforms because they define the specific hardware components and firmware implementation of their platforms.

Table 1: Compatible Operating Systems

Linux OPERATING SYSTEM COMPATIBILITY	PRE-SRP 4.4.5.1	SRP 4.4.5.1
Red Hat® RHEL Server	9.2	9.6 10.0
Canonical® Ubuntu® Server	22.04 LTS 24.04 LTS	22.04 LTS 24.04 LTS
Oracle® Linux	9.2+ UEK7	–
SUSE® Linux Enterprise Server	15 SP5	15 SP7
Debian®	12	12
Fedora	39	41

AmpereOne AC04 Recommended Compilers

For more information on compilers, see https://amperecomputing.com/tutorials/gcc-guide-ampere-processors.

Table 2: Recommended Compilers

SRP RELEASE	ISA	MCPU VALUE	BINUTILS VERSION	GCC 10	GCC 11	GCC 12	GCC 13	GCC 14	GCC 15	LLVM
Pre-4.4.5.1	Armv8.2+	neoverse-n1	≥ 2.33	10.5	11.4	12.3	13.1	14.1	15	16 17.0.0 17.0.6 18.1.0
4.4.5.1	Armv8.2+	neoverse-n1	≥ 2.33	10.5	11.4	12.3	13.1	14.1	15	16 17.0.6 18.1.0 20.1.1

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