AMPERE.

Ampere® Altra® Family Operating System Compatibility and Recommended Compilers

Ampere Altra Family 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 2.10g	SRP 2.10g
Red Hat® RHEL Server	8.6 9.1	8.10 9.5
Canonical® Ubuntu® Server	20.04 LTS 22.04 LTS 24.04 LTS	22.04 LTS 24.04 LTS
Oracle® Linux	8.6 UEK6 8.7+ UEK7 9.1+ UEK7	8.10 UEK7 9.5 UEK7
SUSE® Linux Enterprise Server	15 SP4 15 SP5 15 SP6	15 SP6
Debian®	10 11 12	12

Ampere Altra Family 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 9	GCC 10	GCC 11	GCC 12	GCC 13	GCC 14	GCC 15	LLVM
Pre-2.10g	Armv8.2+	neoverse-n1	≥ 2.33	≥ 9.1	All	All	All	All	All	–	≥ 16
2.10g	Armv8.2+	neoverse-n1	≥ 2.33	9.1	10.5	11.4	12.3	13.1	14.1	15	17.0.0 17.0.6 18.1.0 20.1.1

September 30, 2025

All data and information contained in or disclosed by this document are for informational purposes only and are subject to change.

This document may contain technical inaccuracies, omissions and typographical errors, and Ampere Computing LLC, and its affiliates ("Ampere"), is under no obligation to update or otherwise correct this information. Ampere makes no representations or warranties of any kind, including express or implied guarantees of noninfringement, merchantability or fitness for a particular purpose, regarding the information contained in this document and assumes no liability of any kind. Ampere is not responsible for any errors or omissions in this information or for the results obtained from the use of this information. All information in this presentation is provided "AS IS", with no guarantee of completeness, accuracy, or timeliness.

This document is not an offer or a binding commitment by Ampere. Use of the products and services contemplated herein requires the subsequent negotiation and execution of a definitive agreement or is subject to Ampere's Terms and Conditions for the Sale of Goods.

Ampere Computing
4655 Great America Parkway, Santa Clara, CA 95054
Phone: (669) 770-3700
https://www.amperecomputing.com

©2025 Ampere Computing LLC. All Rights Reserved. Ampere, Ampere Computing, AmpereOne®, and the Ampere logo are all registered trademarks or trademarks of Ampere Computing LLC or its affiliates. Arm is a registered trademark of Arm Limited (or its subsidiaries) in the US and/or elsewhere. All other product names used in this publication are for identification purposes only and may be trademarks of their respective companies.