OpenMP

Context Definitions for the OpenMP API Specification Version 5.0

Version 1.0 January 2020

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1 OpenMP 5.0 Context Definitions

This document describes additional values for OpenMP contexts that compliant implementations must support, as stated in Section 2.3.1 of the OpenMP 5.0 specification.

1.1 Additional *kind-name* Values

Table 1.1 describes the *kind-name* values that can be used in the **kind** trait of the OpenMP context in addition to the **host** and **nohost** values.

TABLE 1.1: Additional *kind-name* values

kind-name	Description
cpu	A parallel device optimized for general computation.
gpu	A massively parallel throughput device.
fpga	A reconfigurable computational device.

1.2 Additional *vendor-name* Values

Table 1.2 describes the *vendor-name* values that can be used in the **vendor** trait in the OpenMP context and their correspondence to the represented organization.

TABLE 1.2: Additional *vendor-name* values

vendor-name	Organization
amd	Advanced Micro Devices, Inc.
arm	Arm Limited

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vendor-name	**Organization**
bsc	Barcelona Supercomputing Center
cray	Cray, a Hewlett Packard Enterprise company
fujitsu	Fujitsu Limited
gnu	GNU Project
ibm	IBM Corporation
intel	Intel Corporation
llvm	LLVM Foundation
nec	NEC Corporation
nvidia	NVIDIA Corporation
ti	Texas Instruments
unknown	Any other than those listed above

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