AMD

AMD ROCm

Release Notes v3.5.1

Patch Release

Publication #	**1.0**	Revision:	**1.0**
Issue Date:	**June 2020**		

Advanced Micro Devices, Inc.

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Table of Contents

Chapter 1   Supported Operating Systems and Documentation Updates

This document describes the features, fixed issues, and information about downloading and installing the AMD ROCm software in the AMD ROCm v3.5.1 patch release.

1.1   Supported Operating Systems

The AMD ROCm v3.5.x platform is designed to support the following operating systems:

- Ubuntu 16.04.6(Kernel 4.15) and 18.04.4(Kernel 5.3)
- CentOS 7.7 (Kernel 3.10-1062) and RHEL 7.8(Kernel 3.10.0-1127)(Using devtoolset-7 runtime support)
- SLES 15 SP1
- CentOS and RHEL 8.1(Kernel 4.18.0-147)

1.2   AMD ROCm V3.5.1 Documentation Links

- For AMD ROCm documentation, see

  https://rocmdocs.amd.com/en/latest/

- For installation instructions on supported platforms, see

  https://rocmdocs.amd.com/en/latest/Installation_Guide/Installation-Guide.html

- For AMD ROCm binary structure, see

  https://rocmdocs.amd.com/en/latest/Installation_Guide/Installation-Guide.html#machine-learning-and-high-performance-computing-software-stack-for-amd-gpu-v3-3-0

- For AMD ROCm Release History, see

  https://rocmdocs.amd.com/en/latest/Installation_Guide/Installation-Guide.html#amd-rocm-version-history

Chapter 2   Fixed Issues

The following issues are fixed in this patch release.

2.1   Memory Access Fault Error

A memory access fault error, which impacted long-running multi-GPU use cases, is now fixed. This issue was observed after deploying AMD ROCm v3.3.

Installing the AMD ROCm v3.5.1 Kernel Fusion Driver (KFD) resolves the issue.

2.2   AMD ROCm API to Query Stream Priority

The API to query the priority of a stream, *hipStreamGetPriority*, is now available for HIP-ROCclr.

2.2.1   Parameters

in

Handle to the stream to be queried

in, out

Pointer to a signed integer in which the stream's priority is returned

2.2.2   Returns

#hipSuccess, #hipErrorInvalidValue, #hipErrorInvalidHandle

The API is enabled by default.

2.3   Support for NCCL2.7

The preliminary support for Send and Receive operations is added.

2.4   Updates to RCCL

The following enhancements are made to RCCL in this release:

- Added support for Gather, Scatter, and All-To-All collective operations
- Added network proxy profiling support