



EMON Release Notes

Release Notes

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Version 11.20

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1 Overview

EMON is a low-level command-line tool that provides the ability to profile application and system performance. The tool leverages counters from hardware Performance Monitoring Units (PMUs) to collect performance monitoring events. The users have the option of specifying hardware events and attributes. EMON configures the required event resources in the PMU to retrieve event counts from the processor Core and Uncore. The tool collects the number of occurrences of selected events for the duration of collection.

To learn more about this product, see:

- New features listed in the [Highlights](#) section below.
- Reference documentation listed in the [Related Documentation](#) section below.
- For a detailed quick start guide to running the tool, see the EMON User's Guide.

2 Highlights

New platform(s) support

New features

- License confirmation is added during installation
For non-interactive (-ni) installation, --accept-license option is required
- Event db update: SNR V1.08, ICL V1.08

Bug fixes

- [SEP-2860] Error checks added in EMON to exit gracefully when the user specified evenlist specified reaches the tool max group limit
- [SEP-2964] Fix the emon buffer index misalignment with cpu offline configuration on Linux
- [SEP-2984] Fix incorrect desc_id used in handling multipebs and the ebc counter collection issue with PEBS event as trigger event.
- [SEP-3016] Fix for Linux driver build error on 5.8 Kernel
- [SEP-3020] Implement a temporary solution of handling nonconsecutive package IDs
- [SEP-3039] Fixed for emon -process-edp and emon -process-pyedp don't accept config file path with spaces on Windows system

3 Supported Architectures

3.1 Intel Core Processor Family

- Cometlake
- Coffeelake
- Kabylake
- Skylake
- Broadwell
- Haswell
- SandyBridge

3.2 Intel Xeon Processor Family

- Cooperlake
- Cascadelake
- Skylake
- Knights Landing
- Broadwell
- Haswell
- Crystalwell
- Ivytown
- Jaketown

3.3 Intel Atom Processor Family

- Broxton

3.3.1 Intel Atom C Processor Family

- Snowridge
- Denverton
- Silvermont
- Avoton

4 Supported Operating Systems

The following OSes and versions are supported by the product.

4.1 Linux

- Linux kernels 2.6.32 through 5.7 are supported including OSes below:
 - Red Hat Enterprise Linux 5 through 8
 - CentOS version equivalent to Red Hat Enterprise Linux versions listed above
 - SUSE Linux Enterprise Server (SLES) 10 through 15
 - Fedora 9 through 31
 - Ubuntu 8.04 through 19.10
 - Debian 9.0 and 10.0

4.2 Windows

- Microsoft Windows 10 x64
- Microsoft Windows Server 2016 and 2019

4.3 FreeBSD

- FreeBSD 11 and 12 on Broadwell server and higher

5 Related Documentation

The release contains these documents:

- [Installer_Overview.pdf](#)
- [EMON_Users_Guide.pdf](#)