EPYC™ System Management Interface (E-SMI) In-band Library Release Notes v1.2

Generated by Doxygen 1.8.13

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1 EPYC™ System Management Interface (E-SMI) In-band Library

NEW! E-SMI library 1.2 is now available

The EPYC™ System Management Interface In-band Library, or E-SMI library, is a C library for Linux that provides a user space interface to monitor and control the CPU's power, energy, performance and other system management features.

1.1 Changes Notes

1.1.1 Highlights of minor release v1.2

- · Support to compile ESMI In-band library as static
- Support for new system management features in tool and library, such as
 - Get SMU Firmware version
 - Get PROCHOT status
 - Get clocks
 - * CPU clock frequency limit
 - * Data Fabric Clock(fclk),
 - * DRAM Memory Clock(mclk) and
 - Provide maximum DDR bandwidth(theoritical) & DDR bandwidth utilization
- · Add more options and improve tool's console output for readability

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1.1.2 Highlights of minor release v1.1

- · Support for creating RPM and DEB packages
- · Auxiliary APIs to provide system topology
- · An API to read all the Energy counters on the CPU at once.
- · Single command to create doxygen based PDF document
- Updated e_smi_tool supporting all the above information
- · Cosmetic changes to the tool

1.1.3 Highlights of major release v1.0

- Power
 - Current Power Consumed
 - Power Limit
 - Max Power Limit
- Performance
 - Boostlimit
- Energy
 - Energy Consumed
- e_smi_tool, user application supporting all the above information.

1.2 Specifications

1.2.1 Processors:

Target released for AMD EPYC™ Zen3 processor Family 19h, model 0~Fh and 30~3Fh.

1.2.2 Operating Systems

AMD ESMI In-band library is tested on following distributions

- Ubuntu 18.04,
- · SUSE SLES 15 and
- RHEL 8.1

1.3 Resources and Technical Support

1.3.1 Resources

- Documentation: https://github.com/amd/esmi_ib_library/blob/master/ESMI_← Manual.pdf
- Source code: https://github.com/amd/esmi_ib_library

1.3.2 Support

Thank you for using AMD ESMI In-band Library. Please use ESMI In-band Support for bug reports, support and feature requests.

1.3.3 Known Issues

• In creating package if "make install" is used previously with "sudo", need to create package with sudo permission, "sudo make package", else permission denied error is popped.