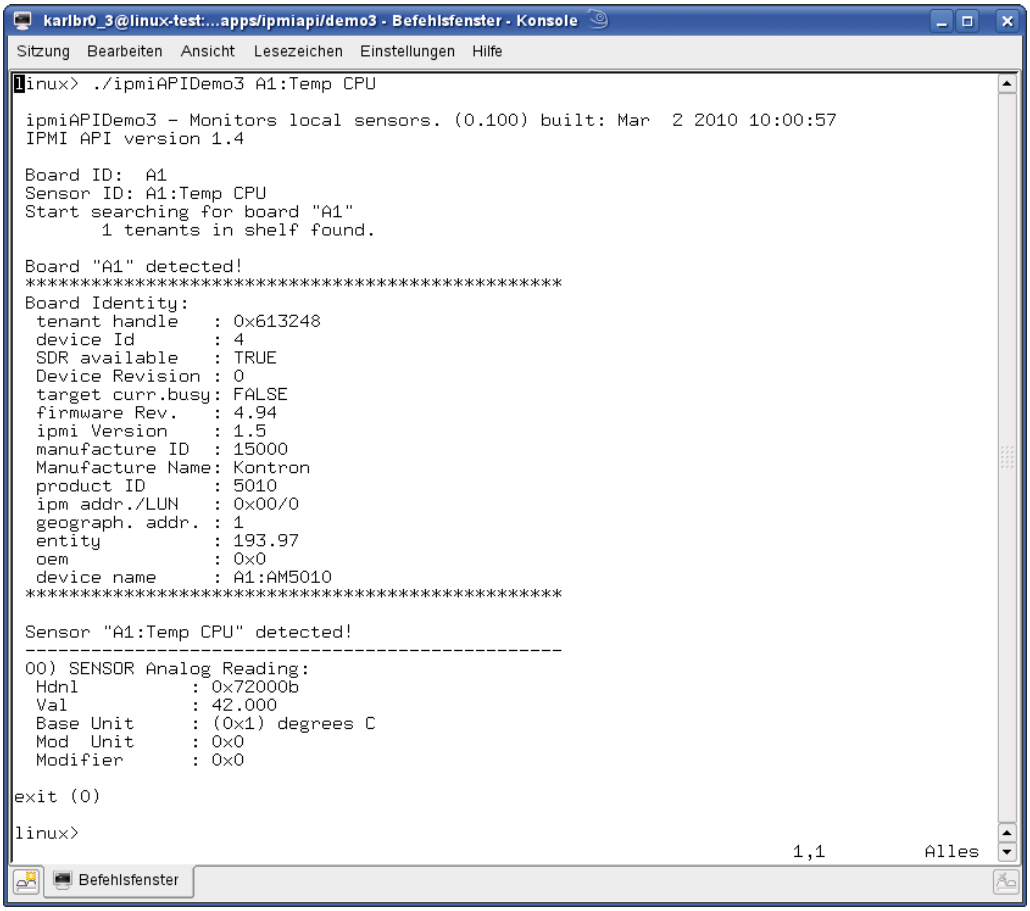
» IPMI-API «



Kontron IPMI-API for Linux 2.6 / 32Bit

» IPMI-API

» Detection of components

» Easy access to IPMI sensors

» Library to configure the Ethernet switches on MCHs

» Scriptable tool to configure MCH Ethernet environment

IPMI-API
for Linux 2.6 for 32Bit kernel

IPMI-API is a C-based library that provides access to IPMI enabled devices. The API hides IPMI-specifics in wide ranges. The main intention of IPMI-API is to retrieve easily sensor readings, thresholds etc. from a CPU-Board with IPMI Subsystem without extensive IPMI knowledge. Additionally, the API monitors SDRs and FRU data deposited in an IPMI Subsystem. Furthermore, IPMI-API offers an interface for sending and receiving IPMI messages in a raw format.

As new feature it is possible to configure the Ethernet switches on the Kontron MCHs as the AM4901 and the AM5901, with this library. Broadcast suppression, VLAN and Multicast support is implemented. Please refer in ethSwCfg directory to the ethSwCfgReadMe.txt and to the example.conf file. The ethSwCfg binary can be used as tool to configure the switch. This tool is able to handle with a text-based configuration file.

Supported Features

IPMI	
	Detection of components (boards, power units, fans, etc.) inside a shelf (CompactPCI or, with restrictions, Micro TCA)
	One handle for each Management Controller inside the shelf for addressing.
	Sensor detection either per Management Controller or system-wide (BMC).
	System-wide unique handle for each sensor.
	Retrieval of sensor readings and settings like Normal Minimum/Maximum Reading, Thresholds etc.
	Thresholds adjustment
	Sensor statistics (by sensor types)
	Retrieval of FRU data sections (Header, Chassis, Board, Product, MultiRecord).
	Retrieval of SDRs (threshold-based/analog Full SDR, discrete Full SDR, Compact SDR, MC Device Locator Records, FRU Device Locator Records) from BMCs SDR Repository or from MC (Device SDRs)
	Sending and receiving of IPMI-Messages in raw (binary) format.
Configuration of AM5901 and AM4901 Ethernet switches	
	Configuration of the MCH-Ethernet-switches. Setup of Broadcast Storm Suppression, port-based VLAN, tagged VLAN and Multicast are supported.
	Configure the MCH-Ethernet-switch with an configuration file.
	Handle managed and unmanaged Ethernet switches of the AM4901 and AM5901.
Open Source	
	Modular package structure, conforming to open source conventions
	Every package comes with HTML-documentation

NOTE: The Linux-IPMI-API is running on any Linux 2.6 X86 CPU. The MCH configuration part can only be used on an X86-AMC-CPU

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