

NAME

mgsimdev-smc – System Management Controller pseudo-device in MGSim

DESCRIPTION

The SMC is a helper device that provides IO Network enumeration. An I/O device of this type can be specified in MGSim using the device type **SMC**.

PROTOCOL

After system start-up, the SMC serves as an enumerator for the I/O interconnect where it is attached: explicit *I/O read* requests will be answered with information about what devices are attached.

The enumeration data is composed of 8-byte packets.

The first 8 bytes indicate how many clients are attached to the I/O interconnect.

Subsequent packates of 8 bytes enumerate the devices. For now, only bytes 2–3 are used in each packet, and indicate the device type. Which identifier correspond to which device type is given by the command **show devicedb** at MGSim's interactive prompt (**–i**).

INTERFACE

The SMC device presents itself to the I/O bus as a single read-only device. It can be accessed using any data size.

Its contents are as follows:

Bytes	Mode	Description
0–7	R	Number of I/O devices attached to the same interconnect
8–15	R	Enumeration data for device 0
16–23	R	Enumeration data for device 1
(...)	R	(...)

SEE ALSO

mgsim(1), mgsimdoc(7)

BUGS

Report bugs & suggest improvements to microgrids@svp-home.org.

AUTHOR

MGSim was created by Mike Lankamp. MGSim is now under stewardship of the Microgrid project. This manual page was written by Raphael 'kena' Poss.

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