NAME

lsmem – list the ranges of available memory with their online status

SYNOPSIS

Ismem [options]

DESCRIPTION

The **Ismem** command lists the ranges of available memory with their online status. The listed memory blocks correspond to the memory block representation in sysfs. The command also shows the memory block size and the amount of memory in online and offline state.

The default output is compatible with original implementation from s390–tools, but it's strongly recommended to avoid using default outputs in your scripts. Always explicitly define expected columns by using the —output option together with a columns list in environments where a stable output is required.

The **Ismem** command lists a new memory range always when the current memory block distinguish from the previous block by some output column. This default behavior is possible to override by the —-split option (e.g., **Ismem** —-split=**ZONES**). The special word "none" may be used to ignore all differences between memory blocks and to create as large as possible continuous ranges. The opposite semantic is —-all to list individual memory blocks.

Note that some output columns may provide inaccurate information if a split policy forces **lsmem** to ignore differences in some attributes. For example if you merge removable and non–removable memory blocks to the one range than all the range will be marked as non–removable on **lsmem** output.

Not all columns are supported on all systems. If an unsupported column is specified, **Ismem** prints the column but does not provide any data for it.

Use the **--help** option to see the columns description.

OPTIONS

-a, --all

List each individual memory block, instead of combining memory blocks with similar attributes.

-b, --bytes

Print the sizes in bytes rather than in a human–readable format.

By default, the unit, sizes are expressed in, is byte, and unit prefixes are in power of 2^10 (1024). Abbreviations of symbols are exhibited truncated in order to reach a better readability, by exhibiting alone the first letter of them; examples: "1 KiB" and "1 MiB" are respectively exhibited as "1 K" and "1 M", then omitting on purpose the mention "iB", which is part of these abbreviations.

-J, --json

Use JSON output format.

-n, --noheadings

Do not print a header line.

-o, --output list

Specify which output columns to print. Use --**help** to get a list of all supported columns. The default list of columns may be extended if *list* is specified in the format +*list* (e.g., **lsmem** -**o** +**NODE**).

--output-all

Output all available columns.

-P, --pairs

Produce output in the form of key="value" pairs. All potentially unsafe value characters are hex-escaped (\x<code>).

-r, --raw

Produce output in raw format. All potentially unsafe characters are hex-escaped (\x<code>).

−S, −−split list

Specify which columns (attributes) use to split memory blocks to ranges. The supported columns are STATE, REMOVABLE, NODE and ZONES, or "none". The other columns are silently ignored. For more details see **DESCRIPTION** above.

-s, --sysroot directory

Gather memory data for a Linux instance other than the instance from which the **Ismem** command is issued. The specified *directory* is the system root of the Linux instance to be inspected.

-h, --help

Display help text and exit.

-V, --version

Print version and exit.

--summary[=when]

This option controls summary lines output. The optional argument *when* can be **never**, **always** or **only**. If the *when* argument is omitted, it defaults to "**only**". The summary output is suppressed for —**raw**, —**pairs** and —**json**.

AUTHORS

Ismem was originally written by Gerald Schaefer for s390–tools in Perl. The C version for util–linux was written by Clemens von Mann, Heiko Carstens and Karel Zak.

SEE ALSO

chmem(8)

REPORTING BUGS

For bug reports, use the issue tracker at https://github.com/util-linux/issues.

AVAILABILITY

The **Ismem** command is part of the util–linux package which can be downloaded from Linux Kernel Archive https://www.kernel.org/pub/linux/utils/util-linux/.