

Re: [PATCH][RFC] Add default CPU topology information

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2008-03/msg11962.html>

- *From:* Ingo Molnar <mingo@xxxxxxx>
 - *Date:* Mon, 31 Mar 2008 14:35:57 +0200
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* Ben Hutchings <bhutchings@xxxxxxxxxxxxxxxx> wrote:

Not all architectures and configurations define CPU topology information. This can result in an empty topology directory in sysfs, and requires in-kernel users to protect all uses with #ifdef – see <<http://marc.info/?l=linux-netdev&m=120639033904472&w=2>>.

The documentation of CPU topology specifies what the defaults should be if only partial information is available from the hardware. So we can provide these defaults as a fallback.

This patch:

- Adds default definitions of the 4 topology macros to include/asm-generic/topology.h.
- Changes include/asm-*/topology.h to include <asm-generic/topology.h> unconditionally.
- Changes drivers/base/topology.c to use the topology macros unconditionally and to cope with definitions that aren't lvalues.
- Updates documentation accordingly.

Signed-off-by: Ben Hutchings <bhutchings@xxxxxxxxxxxxxxxx>

very nice – i suspect this would be a patch for –mm.

Acked-by: Ingo Molnar <mingo@xxxxxxx>

Ingo

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