

N8x0 support in linux-omap

Debug interfaces

Subsystems' status

Debugging in qemu

Need CONFIG_DEBUG_INFO=y in kernel configuration for the following to work.

Magic numbers:

- 0x80000000 - here the kernel is loaded
- 0x80008000 - here we jump after it's been decompressed
- 0x80027000 - 'arm-linux-gnu-objdump -x vmlinux' says that .text starts here (if .text.head is at 0x80008000)

Script for gdb session:

```
target remote 127.0.0.1:1234
break *0x80008000
```

To debug compression-related stuff from the very beginning (start, arch/arm/boot/compressed/head.S) till start_kernel:

```
add-symbol-file ~/ws/osll/omap/20090610/linux-omap-2.6/arch/arm/boot/compressed/vmlinux 0x80000000
```

To debug kernel from stext (arch/arm/kernel/head.S) until MMU is active:

```
add-symbol-file ~/ws/osll/omap/20090610/linux-omap-2.6/vmlinux 0x80027000 -s .text.head 0x80008000
```

To debug kernel from start_kernel (init/main.c):

```
add-symbol-file ~/ws/osll/omap/20090610/linux-omap-2.6/vmlinux 0xc0027000
```

Debugging on real HW

Last
update: etc:users:jcmvbkbc:omap-support-pieces <http://wiki.osll.ru/doku.php/etc:users:jcmvbkbc:omap-support-pieces?rev=1246307556>
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