

# N8x0 support in linux-omap

Current kernel: 2.6.31-rc1-omap1

## 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 decompression (.text.head that has VA of 0xc0008000 has PA 0x80008000 until MMU is active)
- 0xc0026000 - 'arm-linux-gnu-objdump -x vmlinux' says that .text starts here

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 0x80026000 -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 0xc0026000
```

## Debugging on real HW

Last update: 2009/06/30 01:55 etc:users:jcmvbkbc:omap-support-pieces <http://wiki.osll.ru/doku.php/etc:users:jcmvbkbc:omap-support-pieces?rev=1246312555>

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