

[patch 1/14] s3c2412/s3c2413 support

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2006-03/msg00929.html>

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 - *Date:* Fri, 03 Mar 2006 11:58:52 +0100
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Added s3c2412 detection.

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```
--- linux-2.6.15.4/arch/arm/mach-s3c2410/cpu.c 2006-02-10 08:22:48.000000000 +0100
+++ golinux/arch/arm/mach-s3c2410/cpu.c 2006-03-03 11:30:43.000000000 +0100
@@ -41,6 +41,7 @@
#include "cpu.h"
#include "clock.h"
#include "s3c2410.h"
+#include "s3c2412.h"
#include "s3c2440.h"

struct cpu_table {
@@ -58,6 +59,7 @@
static const char name_s3c2410[] = "S3C2410";
static const char name_s3c2440[] = "S3C2440";
static const char name_s3c2410a[] = "S3C2410A";
+static const char name_s3c2412[] = "S3C2412";
static const char name_s3c2440a[] = "S3C2440A";

static struct cpu_table cpu_ids[] __initdata = {
@@ -99,6 +101,19 @@
}
};

+static struct cpu_table alternative_cpu_ids[] __initdata = {
+ {
+ .idcode = 0x32410002,
+ .idmask = 0xffffffff,
+ .map_io = s3c2412_map_io,
+ .init_clocks = s3c2412_init_clocks,
+ .init_uarts = s3c2412_init_uarts,
+ .init = s3c2412_init,
+ .name = name_s3c2412
+ }
+};
+
```

```
+
/* minimal IO mapping */

static struct map_desc s3c_iodesc[] __initdata = {
@@ -110,13 +125,16 @@

static struct cpu_table *
-s3c_lookup_cpu(unsigned long idcode)
+s3c_lookup_cpu(unsigned long idcode,int alt)
{
struct cpu_table *tab;
int count;
+ int size;

- tab = cpu_ids;
- for (count = 0; count < ARRAY_SIZE(cpu_ids); count++, tab++) {
+ tab = alt?alternative_cpu_ids:cpu_ids;
+ size = alt?ARRAY_SIZE(alternative_cpu_ids):ARRAY_SIZE(cpu_ids);
+
+ for (count = 0; count < size; count++, tab++) {
if ((idcode & tab->idmask) == tab->idcode)
return tab;
}
@@ -154,7 +172,11 @@
iotable_init(s3c_iodesc, ARRAY_SIZE(s3c_iodesc));

idcode = __raw_readl(S3C2410_GSTATUS1);
- cpu = s3c_lookup_cpu(idcode);
+ cpu = s3c_lookup_cpu(idcode,0);
+ if (cpu == NULL) {
+ idcode = __raw_readl(S3C2412_GSTATUS1);
+ cpu = s3c_lookup_cpu(idcode,1);
+ }

if (cpu == NULL) {
printk(KERN_ERR "Unknown CPU type 0x%08lx\n", idcode);

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