Porting of drivers/pinctrl/pinctrl-tb10x.c

May 26, 2017

1 Introduction

The driver drivers/pinctrl/pinctrl-tb10x.c was introduced in 2013 in the commit 5aad0db. It is a TB10x pin control driver. This driver was accompanied by changes in Kconfig and a makefile, and a new documentation file. Gcc produces 1 error and 2 warnings that reduce to 1 error.

2 struct pinmux_ops.set_mux

Gcc reports that the field set_mux of the structure struct struct pinmux_ops is not known. We try the following patch query (step1.cocci):

```
@bad1 depends on before@
struct pinmux_ops *e;
e->set_mux
@bad2 depends on before@
struct pinmux_ops e;
00
e.set_mux
@bad3 depends on before@
identifier i;
expression e;
struct pinmux_ops i = {
  .set_mux
   = e,
};
@depends on !bad1 && !bad2 && !bad3@
struct pinmux_ops *e;
+ e->set_mux
@depends on !bad1 && !bad2 && !bad3@
struct pinmux_ops e;
```

The first reported commit is 03e9f0c at 22%. This commit contains many examples showing that the set_mux field should be converted back to enable, and the function should be renamed to replace the suffix of set_mux by a suffix of enable.

This gives the following semantic patch. This is not suitable for use with prequel, due to the inverted direction and to the function rename.

```
@r@
  identifier i,fn;
  00
  struct pinmux_ops i = {
  - .set_mux
  + .enable
     = fn,
 };
 @script:ocaml@
  fn << r.fn;
  fn2;
  00
 fn2 := make_ident fn
  identifier r.i,r.fn;
  struct pinmux_ops i = {
    .enable =
       fn
       fn2
 };
=== success 1/2, 03e9f0c
```