

Porting of drivers/gpio/gpio-104-idio-16.c

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1 Introduction

The driver `drivers/gpio/gpio-104-idio-16.c` was introduced in 2013 in the commit `1ceacea`. It is a GPIO driver for the ACCES 104-IDIO-16 family. This driver was accompanied by additions to `Kconfig` and a `Makefile`. Gcc produces 1 error message.

2 struct gpio_chip.dev

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

```
@bad1 depends on after@
struct gpio_chip *e;
@@

    e->dev

@bad2 depends on after@
struct gpio_chip e;
@@

    e.dev

@bad3 depends on after@
identifier i;
expression e;
@@

struct gpio_chip i = {
    .dev
    = e,
};

@bad4 depends on after@
identifier i;
expression e;
@@

struct gpio_chip i[...] = {...,{
    .dev
    = e,
},...};
```

```

@depends on !bad1 && !bad2 && !bad3 && !bad4@
struct gpio_chip *e;
@@

- e->dev

@depends on !bad1 && !bad2 && !bad3 && !bad4@
struct gpio_chip e;
@@

- e.dev

@depends on !bad1 && !bad2 && !bad3 && !bad4@
identifier i;
expression e;
@@

struct gpio_chip i = {
- .dev
  = e,
};

@depends on !bad1 && !bad2 && !bad3 && !bad4@
identifier i;
expression e;
@@

struct gpio_chip i[...] = {...,{
- .dev
  = e,
},...};

```

The first commit is a1eb9d5 at 50% that replaces the dev field by parent:

```

@@
struct gpio_chip c;
@@

c.
- dev
+ parent

```

This change is also made in the driver.
== success (1/4)