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# 树莓派参数

| 机型             | 版本   | 系统芯片               | 芯片家族    | ARM处理器家族          | ARM架构   | ARM核心        | 浮点运算单元        | CPU主频   | 内存            |
|----------------|------|--------------------|---------|-------------------|---------|--------------|---------------|---------|---------------|
| Raspberry Pi   | Zero | Broadcom BCM2835   | bcm2708 | ARM11             | ARMv6   | arm1176jzf-s | vfp           | 1000MHz | 512MiB        |
| Raspberry Pi   | A    | Broadcom BCM2835   | bcm2708 | ARM11             | ARMv6   | arm1176jzf-s | vfp           | 700MHz  | 256MiB        |
| Raspberry Pi   | A+   | Broadcom BCM2835   | bcm2708 | ARM11             | ARMv6   | arm1176jzf-s | vfp           | 700MHz  | 256MiB        |
| Raspberry Pi   | B    | Broadcom BCM2835   | bcm2708 | ARM11             | ARMv6   | arm1176jzf-s | vfp           | 700MHz  | 256MiB/512MiB |
| Raspberry Pi   | B+   | Broadcom BCM2835   | bcm2708 | ARM11             | ARMv6   | arm1176jzf-s | vfp           | 700MHz  | 512MiB        |
| Raspberry Pi 2 | B    | Broadcom BCM2836   | bcm2709 | Cortex-A (32-bit) | ARMv7-A | cortex-a7    | neon-vfpv4    | 900MHz  | 1GiB          |
| Raspberry Pi 3 | B    | Broadcom BCM2837   | bcm2710 | Cortex-A (64-bit) | ARMv8-A | cortex-a53   | neon-fp-armv8 | 1.2GHz  | 1GiB          |
| Raspberry Pi 3 | B+   | Broadcom BCM2837B0 | bcm2710 | Cortex-A (64-bit) | ARMv8-A | cortex-a53   | neon-fp-armv8 | 1.2GHz  | 1GiB          |

## 推荐的CFLAGS

Raspberry Pi A, A+, B, B+, Zero:

```
CFLAGS="-O2 -pipe -march=armv6j -mcpu=arm1176jzf-s -mfpu=vfp -mfloat-abi=hard"
```

Raspberry Pi 2:

```
CFLAGS="-O2 -pipe -march=armv7-a -mtune=cortex-a7 -mfpu=neon-vfpv4 -mfloat-abi=hard"
```

Raspberry Pi 3:

```
CFLAGS="-O2 -pipe -march=armv8-a+crc -mtune=cortex-a53 -mfpu=neon-fp-armv8 -mfloat-abi=hard -mneon-for-64bits"
```

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