

arch	ARM CPU (for example)
ARMv1	ARM1
ARMv2	ARM2,ARM3
ARMv3	ARM6,ARM7
ARMv4	StrongARM,ARM7TDMI,ARM9TDMI
ARMv5	ARM7EJ,ARM9E,ARM10E,XScale
ARMv6	ARM11,ARM Cortex-M
ARMv7	Cortex-A,Cortex-M,Cortex-R
ARMv8	Cortex-A53 / A57

ARM toolchain中的-march , -mcpu,-mtune options

-march指定架构，比如

-march=armv4

-march=armv7-a

-march=armv6

-mcpu & -mtune指定CPU core,比如

-mcpu=arm7tdmi

NEON --- 别名

SIMD指令集，Single Instruction Multiply Data,类似intel的MMX技术

VFP --- Vector Floating Point,对single float and double float的指令支持

G2在R4上运行的Threadx的build时的options为

-mach=armv7-r

-mcpu=cortex-r4