

ARM64 Conditional Branching

NZCV flags

Negative signed result is negative

Zero result is 0

Carry
 add op → overflow
 sub op doesn't borrow
 last bit shifted out when shifting

oVerflow --- add/sub op → signed overflow

Branch conditional codes B.{condition}

	N	Z	C	V	
MI	1	–	–	–	negative
PL	0	–	–	–	positive/zero
EQ	–	1	–	–	equal
NE	–	0	–	–	not equal
VS	–	–	–	1	overflow
VC	–	–	–	0	no overflow
CS/HS	–	–	1	–	unsigned >=
CC/LO	–	–	0	–	unsigned <
HI	–	0	1	–	unsigned >
LS	–	1*	0*	–	unsigned <=
GE	=	–	–	=	signed >=
LT	≠	–	–	≠	signed <
GT	=	0	–	=	signed >
LE	≠*	1*	–	≠*	signed <=
AL	–	–	–	–	always

Flag states

- 1 flag set
- 0 flag clear
- ignored
- = flags the same
- ≠ flags different
- * either/both can be met