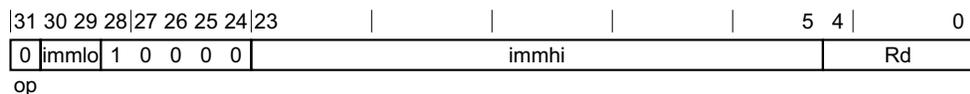


C6.2.9 ADR

Form PC-relative address adds an immediate value to the PC value to form a PC-relative address, and writes the result to the destination register.



Literal variant

ADR <Xd>, <label>

Decode for this encoding

```
integer d = UInt(Rd);
bits(64) imm;

imm = SignExtend(immhi:immlo, 64);
```

Assembler symbols

<Xd> Is the 64-bit name of the general-purpose destination register, encoded in the "Rd" field.

<label> Is the program label whose address is to be calculated. Its offset from the address of this instruction, in the range +/-1MB, is encoded in "immhi:immlo".

Operation

```
bits(64) base = PC[];

X[d] = base + imm;
```