

1. asm

```
(
    "REV %[x32],%[x32]"
    :    [x32]    "=r"    (x32)
    )    ;
```

2. #define Lower32Bits(x) ((int32_t *) &x)[0]

#define Upper32Bits(x) ((int32_t *) &x)[1]

Int64_t src, dst;

asm

```
(
    "LSRS %[dstHi],%[srcHi],1 \n\t"
    "RRX %[dstLo],%[srcLo]"
    :    [dstLo]    "=r"    (Lower32Bits(dst)),
        [dstHi]    "=r"    (Upper32Bits(dst))
    :    [srcLo]    "r"     (Lower32Bits(src)),
        [srcHi]    "r"     (Upper32Bits(src))
    :    "cc"
    )    ;
```

4.b. asm

```
(
    "UBFX %[res],%[src],%[lsb],%[width] \n\t"
    :    [res]      "+r"    (res)
    :    [src]      "r"     (src)
    :    [lsb]      "i"     (lsb)
    :    [width]    "i"     (width)
    :    "cc"
    )    ;
```

return res;

c. asm

```
(
    "SBFX %[res],%[src],%[lsb],%[width] \n\t"
    :    [res]      "+r"    (res)
    :    [src]      "r"     (src)
    :    [lsb]      "i"     (lsb)
    :    [width]    "i"     (width)
    :    "cc"
    )    ;
```

return res;