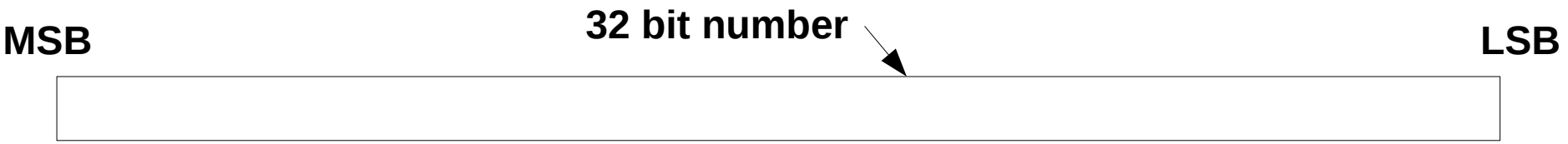
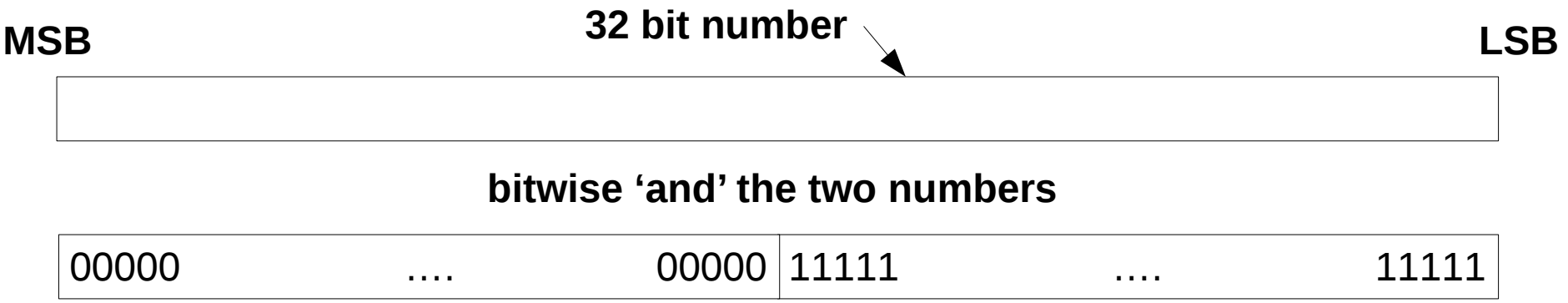
ffs_imp



ffs_imp



If the first 1 is in bits 0-15 then the bitwise and is not 0

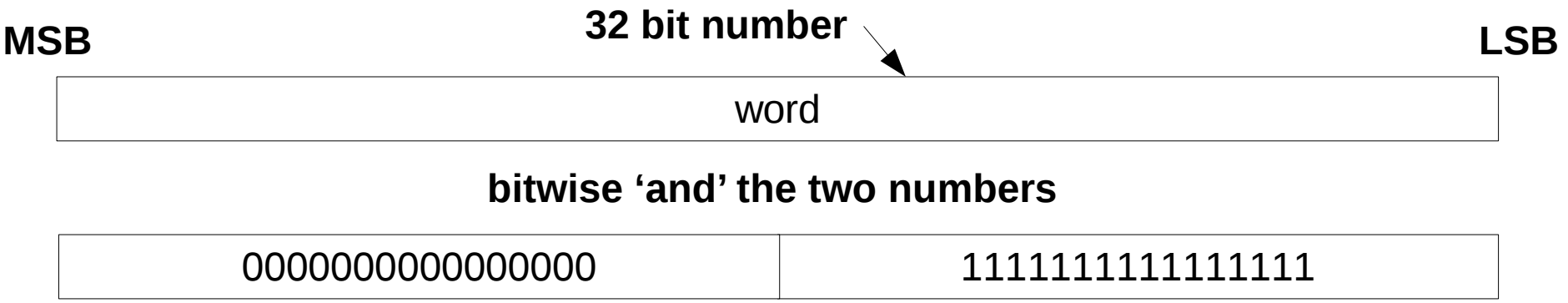
Set n to 1

If the first 1 is in bits 16-31 then the bitwise and is 0

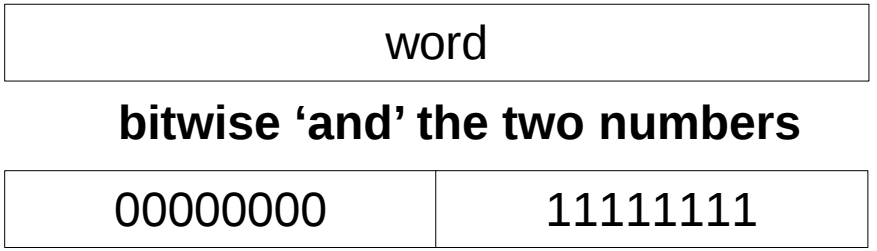
Set n to 17

Shift ‘word’ to the right by 16

ffs_imp



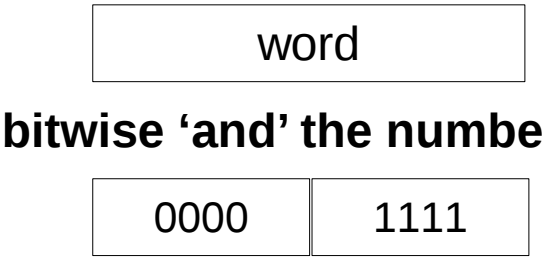
If the first 1 is in bits 0-15 then the bitwise and is not 0
Set n to 0
If the first 1 is in bits 16-31 then the bitwise and is 0
Set n to 16
Shift ‘word’ to the right by 16



If the first 1 is in bits 0-7 or 16-23 then the bitwise and is not 0
Set n to either 0 or 16
If the first 1 is in bits 8-15 or 24-31 then the bitwise and is 0
Set n to either 8 or 24
Shift ‘word’ to the right by 8

ffs_imp

If the first 1 is in bits 0-3 or 8-11 or 16-19 or 24-27 then the bitwise and is not 0
Set n to 0, 8, 16, 24 respectively
If the first 1 is in bits 4-7 or 12-15 or 20-23 or 28-31 then the bitwise and is 0
Set n to 4, 12, 20, 28 respectively
Shift ‘word’ to the right by 4



If the first 1 is in bits 0-1 or 4-5 or 8-9 or 12-13 or 16-17 or 20-21 or 24-25 or 28-29 then the bitwise and is not 0
Set n to 0, 4, 8, 12, 16, 20, 24, 28 resp.
If the first 1 is in bits 2-3 or 6-7 or 10-11 or 14-15 or 18-19 or 22-23 or 26-27 or 30-31 then the bitwise and is 0
Set n to 2, 6, 10, 14, 18, 22, 26, 30 resp.
Shift ‘word’ to the right by 2