

LV target: vreg , base: reg , off: imm

Behavior:

- $\text{addr} = \text{base} + \text{offset}$
- $\text{target} = [\text{addr} + 511: \text{addr}]$

SV base: reg , off: imm , target: vreg

Behavior:

- $\text{addr} = \text{base} + \text{offset}$
- $[\text{addr} + 511: \text{addr}] = \text{target}$

VADD dst: vreg , a: vreg , b: vreg

Behavior:

- FOR j = 0 to 15
- $i = j * 32$
- $\text{dst}[i + 31: i] = \text{a}[i + 31: i] + \text{b}[i + 31: i]$
- ENDFOR

LSRV dst: vreg , src: vreg , shift: imm

Behavior:

- FOR j = 0 to 15
- $i = j * 32$
- IF shift > 31
- $\text{dst}[i + 31: i] = 0$
- ELSE
- $\text{dst}[i + 31: i] = \text{ZeroExt}(\text{src}[i + 31: i] \gg \text{shift})$
- ENDIF
- ENDFOR

VPERM dst: vreg , a: vreg , idx: vreg

Behavior:

- FOR j = 0 to 15
- $i = j * 32$
- $\text{id} = \text{idx}[i + 31: i] * 32$
- $\text{dst}[i + 31: i] = \text{a}[\text{id} + 31: \text{id}]$
- ENDFOR