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|--------|--------|--------|----------|------------|--------|--------|------|
| LOAD_W | LOAD_D | CALC_F | Vir_SAVE | Vir_LOAD_W | LOAD_D | CALC_F | SAVE |
|--------|--------|--------|----------|------------|--------|--------|------|

(a) Input instruction sequence. (VI-ISA from DDR)

| | | | | | |
|--------|--------|--------|--------|--------|------|
| LOAD_D | LOAD_W | CALC_F | LOAD_W | CALC_F | SAVE |
|--------|--------|--------|--------|--------|------|

(b) Executed sequence when no interrupt. (Original ISA to accelerator)
Virtual Instructions are deleted.

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|--------|--------|--------|------|--------|--------|--------|------|
| LOAD_W | LOAD_D | CALC_F | SAVE | LOAD_W | LOAD_D | CALC_F | SAVE |
|--------|--------|--------|------|--------|--------|--------|------|

(c) Executed sequence when interrupt occurs. (Original ISA to accelerator)
Virtual Instructions (Blue) are executed. Normal SAVE (Red) is modified.