

LOAD_W	LOAD_D	CALC_F	Vir_SAVE	Vir_LOAD_W	LOAD_D	CALC_F	SAVE
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(a) Input instruction sequence

LOAD_D	LOAD_W	CALC_F	LOAD_W	CALC_F	SAVE
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(b) Executed sequence **when no interrupt**.

Virtual Instructions are deleted.

LOAD_W	LOAD_D	CALC_F	SAVE	LOAD_W	LOAD_D	CALC_F	SAVE
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(c) Executed sequence **when interrupt occurs**.

Virtual Instructions (Blue) are executed. Normal SAVE (Red) is modified.