Register Name	Type	Width	Bus	MB	AR	AS	SR	SS	ST
counter_reg	Flip-flop	5	Y	N	Y	N	N	N	N
shift_reg	Flip-flop	64	Y	N	Y	N	N	N	N
state_reg	Flip-flop	2	Y	N	Y	N	N	N	N
operand_a_reg	Flip-flop	32	Y	N	Y	N	N	N	N
operand_b_reg	Flip-flop	32	Y	N	Y	N	N	N	N
inst_reg	Flip-flop	3	Y	N	Y	N	N	N	N
output_done_reg	Flip-flop	1	N	N	Y	N	N	N	N

Register Name	Type	Width	Bus	MB	AR	AS	SR	SS	ST
counter_nxt_reg	Flip-flop	5	Y	N	N	N	N	N	N