

	retime-mem retime dupra	msr	xbar-elm rtelm	merge			
mlp -	33	0	-6	-8	7	8	16
bs -	14	-61	37	-6	15	-9	16
rf -	-9	0	-48	-11	10	-12	0
pr -	-12	0	-5	3	4	-6	8
lstm -	-29	-26	-4	6	8	25	14

Resource Reduction

	retime-mem retime dupra	msr	xbar-elm rtelm	merge			
-	60	0	13	86	8	-16	0
-	4	80	14	3	2	28	1
-	-12	0	12	11	15	11	0
-	-2	0	2	1	2	2	-1
-	29	18	-0	86	-0	-0	-2

Performance Improvement