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LAN EXOS  
18 SEP

inputs  
Func[3:0]  
src0[15:0]  
src1[15:0]

Outputs  
dst[15:0]

Wires  
Func[1:0]: sel[1:0]  
Func[3:2]: ctrl[1:0]

functions

sel	fn route
00	add/sub/paddsb
01	and/nor (logic), room for two others if necessary
10	sll, srl, sra (sla) if necessary
11	lhb, llb

add route		logic route		shifter		loader	
ctl	fn	ctl	fn	ctl	fn	ctl	fn
00	add	X0	and	00	sll	X0	llb
01	sub	X1	nor	01	srl	X0	lhb
1X	paddsb			10	sra	X1	lhb
				11	sla (optional)		

