

Calculation example of Lifting Scheme

x		10	20	30	10	15	20	
shift hi r								
hx			10	<i>20</i>	30	<i>10</i>	15	<i>20</i>
lx		<i>10</i>	20	<i>30</i>	10	<i>15</i>	20	
subsample								
hx		10	30	15				
lx		20	10	20	(10)			
P: hi - = g(lo)								
hx		-5	15	0				
lx		20	10	20				
U: lo += f(hi)								
hx	(15)	-5	15	0				
lx		23	13	24				
inverse								
hx		-5	15	0				
lx		23	13	24				
U: lo - = f(hi)								
hx	(15)	-5	15	0				
lx		20	10	20				
P: hi += g(lo)								
hx		10	30	15				
lx		20	10	20	(10)			
upsample								
hx		0	10	0	30	0	15	
lx		0	20	0	10	0	20	
shift hi l								
hx	0	10	0	30	0	15		
lx		0	20	0	10	0	20	
combine								
x		10	20	30	10	15	20	