





























BSV Code for stage f	
DSV COUE IOI Staye_1	
<pre>function Vector#(64, Complex#(n)) stage f</pre>	
(Bit#(2) stage, Vector#(64, Complex#(n)) stage in);
Vector#(64, Complex#(n)) stage temp, stage out	
for (Integer i = 0; i < 16; i = i + 1)	
begin begin	
Integer idx = i * 4;	
<pre>Vector#(4, Complex#(n)) x;</pre>	
$x[0] = stage_in[idx]; x[1] = stage_in[$	idx+11;
x[2] = stage in[idx+2]; x[3] = stage in[
<pre>let(twid) = getTwiddle(stage, fromInteger</pre>	have been been been been been been been be
let $y = bfly4$ (twid, x);	
<pre>stage temp[idx] = y[0]; stage temp[idx</pre>	+1] = y[1];
<pre>stage temp[idx+2] = y[2]; stage temp[idx</pre>	
end	
//Permutation	
for (Integer i = 0; i < 64; i = i + 1)	twid's are
<pre>stage out[i] = stage temp[permute[i]];</pre>	mathematically
return(stage out);	derivable
endfunction	constants
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