

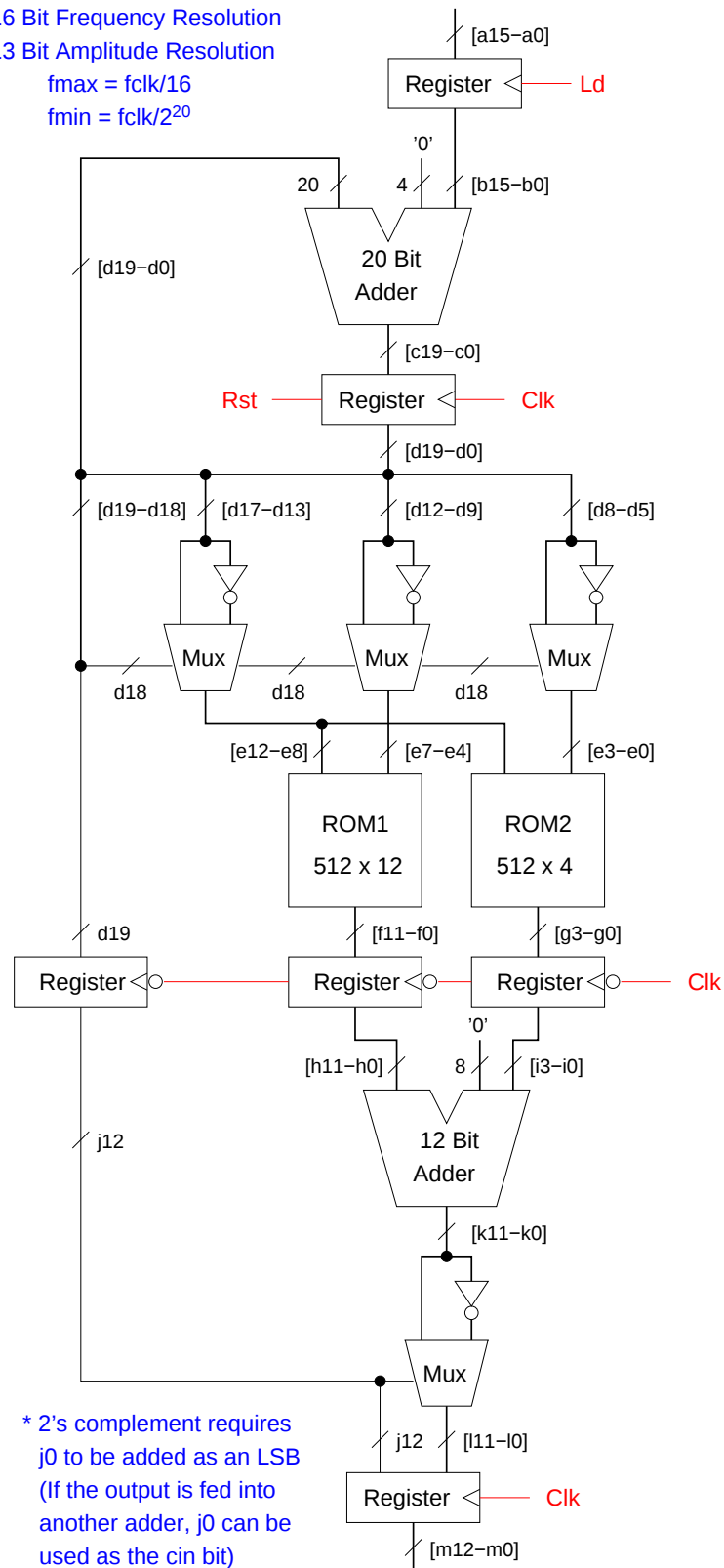
Direct Digital Sine Wave Synthesizer

16 Bit Frequency Resolution

13 Bit Amplitude Resolution

$$f_{\max} = f_{\text{clk}}/16$$

$$f_{\min} = f_{\text{clk}}/2^{20}$$



* 2's complement requires
j0 to be added as an LSB
(If the output is fed into
another adder, j0 can be
used as the cin bit)

Sine (1's complement)*