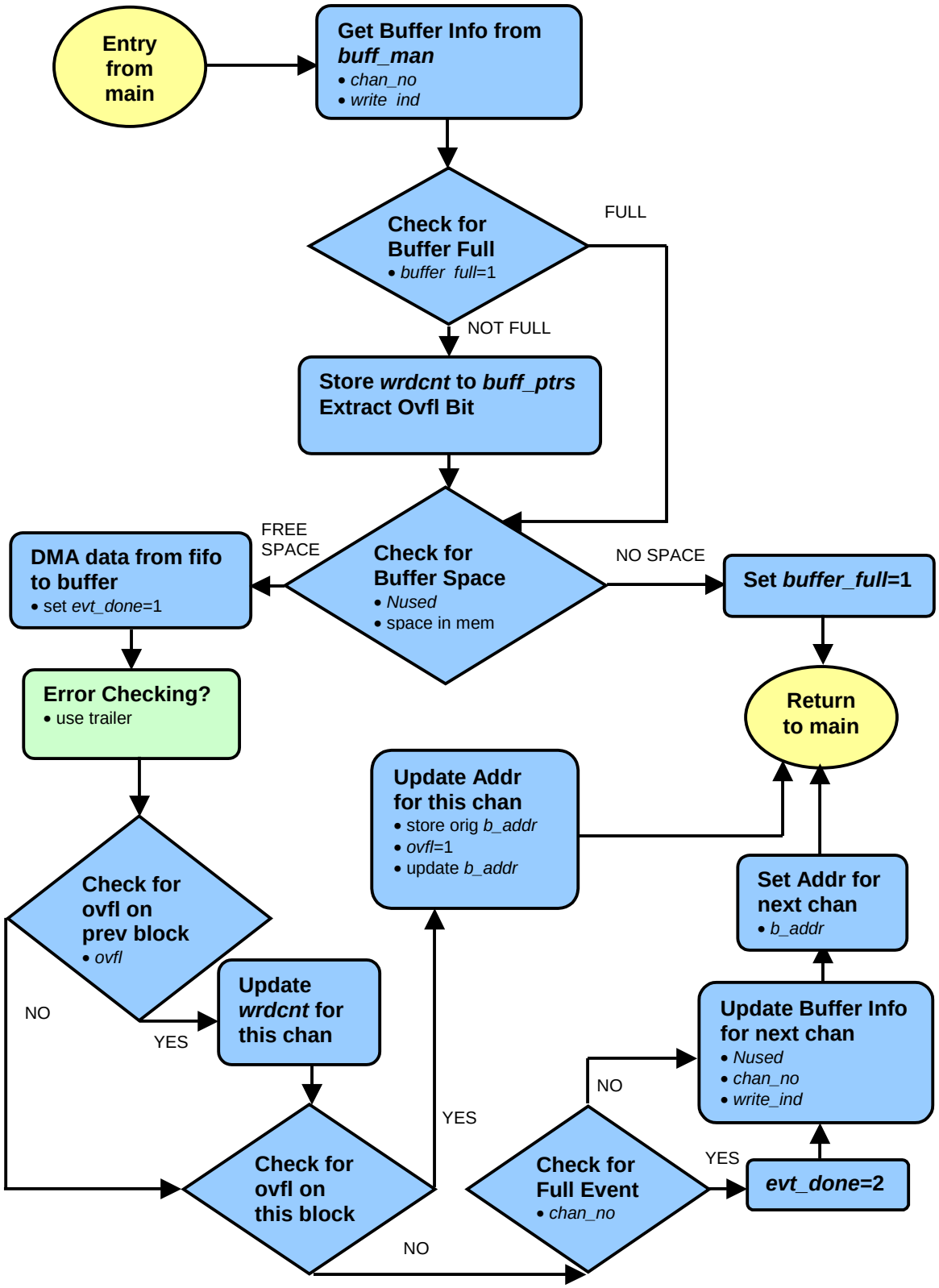DSP 1-4 Write Buffer Algorithm