Does the real-time thread mutate the object?

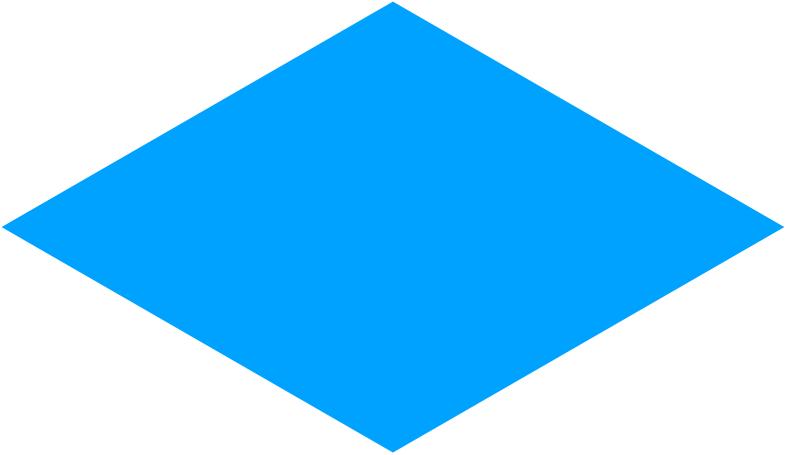
CAS loop











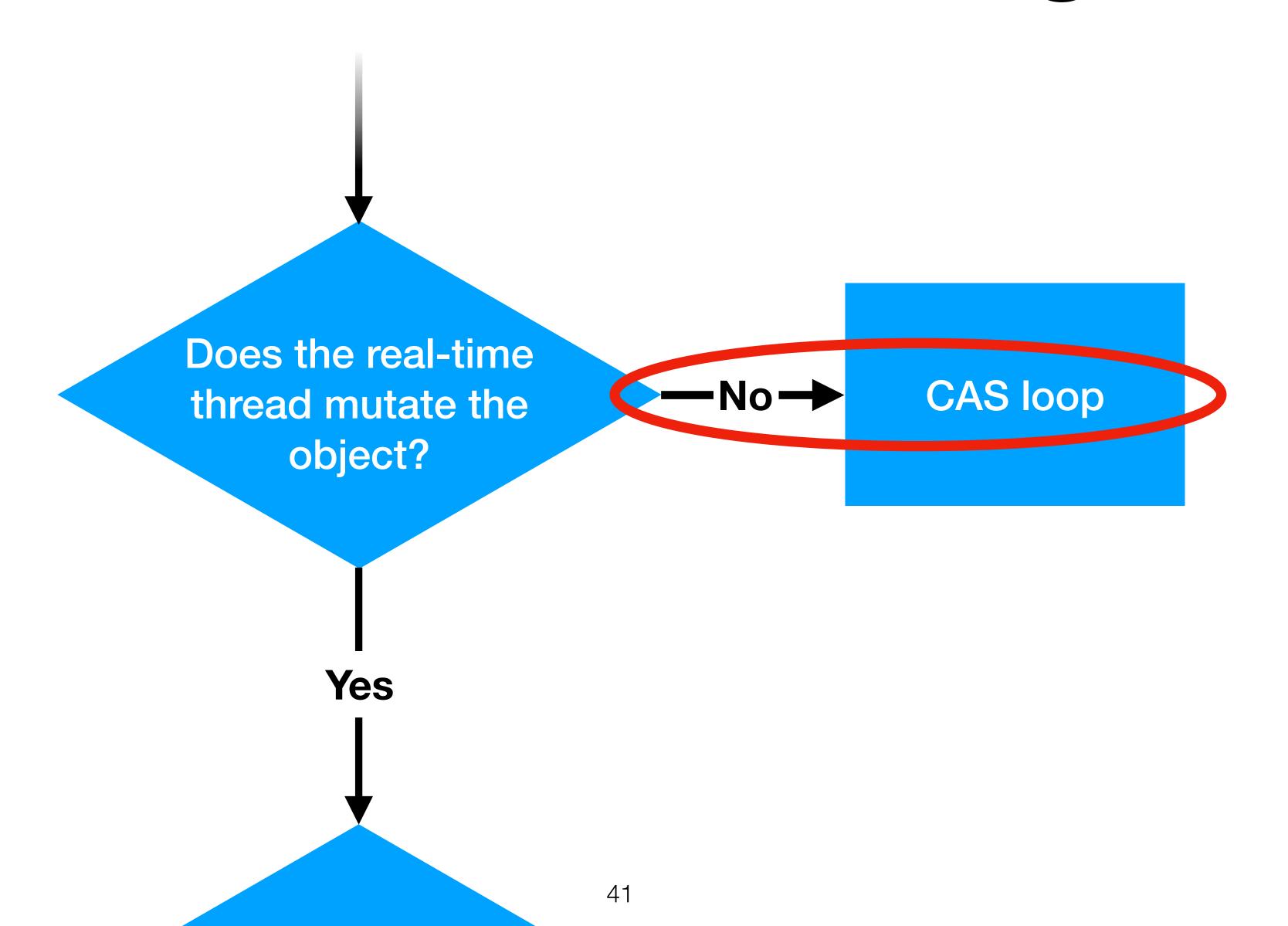
Real-time Mutating?







Real-time Mutating?



```
struct BiquadCoeffecients { float b0, b1, b2, a1, a2; };
BiquadCoeffecients coeffs;
BiquadCoeffecients calculateLowPassCoeffecients (float freq);
void audioThread (const float* src, float* dst, size_t n)
    static float lv1, lv2;
    for (size_t i = 0; i < n; ++i)</pre>
        auto input = src[i];
        auto output = (input * coeffs.b0) + lv1;
        dst[i] = output;
        lv1 = (input * coeffs.b1) - (output* coeffs.a1) + lv2;
        lv2 = (input * coeffs.b2) - (output* coeffs.a2);
void updateFrequencyParameter (float newValue)
    coeffs = calculateLowPassCoeffecients (newValue);
```