The CAS Exchange Loop

```cpp
struct BiquadCoeffecients  {  float b0, b1, b2, a1, a2; };
BiquadCoeffecients coeffs;

BiquadCoeffecients calculateLowPassCoeffecients (float freq);

void audioThread (const float* src, float* dst, size_t n)
{

    processBiquad (src, dst, n, coeffs);
}


void updateFrequencyParameter (float newValue)
{
    coeffs = calculateLowPassCoeffecients (newValue);
}
```

The CAS Exchange Loop

```cpp
struct BiquadCoeffecients {  float b0, b1, b2, a1, a2; };
std::atomic<BiquadCoeffecients*> coeffs;

BiquadCoeffecients calculateLowPassCoeffecients (float freq);

void audioThread (const float* src, float* dst, size_t n)
{
    auto* coeffsCopy = coeffs.load();
    processBiquad (src, dst, n, coeffsCopy);
}

void updateFrequencyParameter (float newValue)
{
    coeffs = new BiquadCoeffecients (calculateLowPassCoeffecients (newValue));
}
```