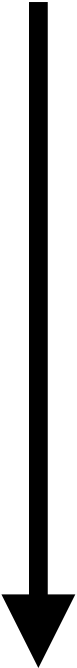


Are you sharing
“suitably small” data?


Use `std::atomic`



Yes

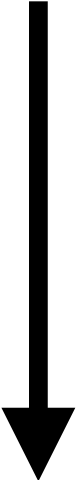


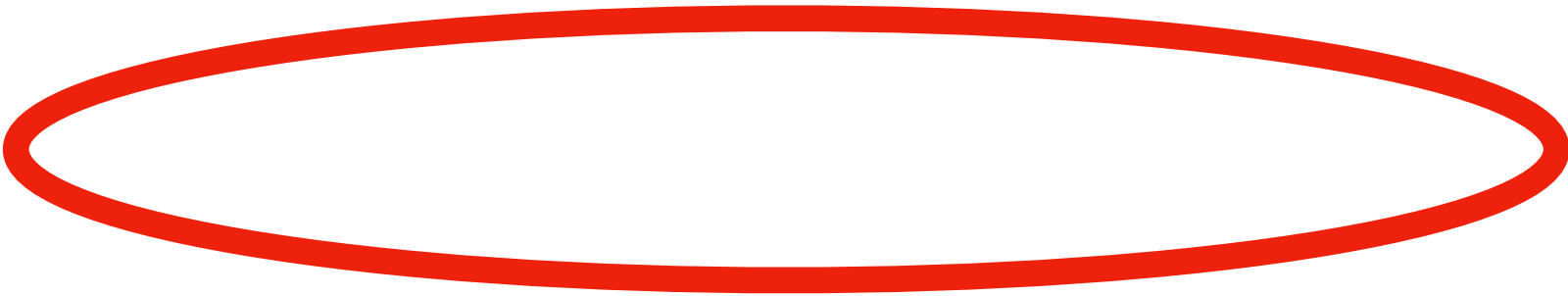
No

A large blue diamond shape is centered on a white background. Inside the diamond, the text "Are you interacting with a real-time thread?" is written in white, bold, sans-serif font, arranged in four lines.

Are you
interacting with a real-time
thread?

How big is your data?

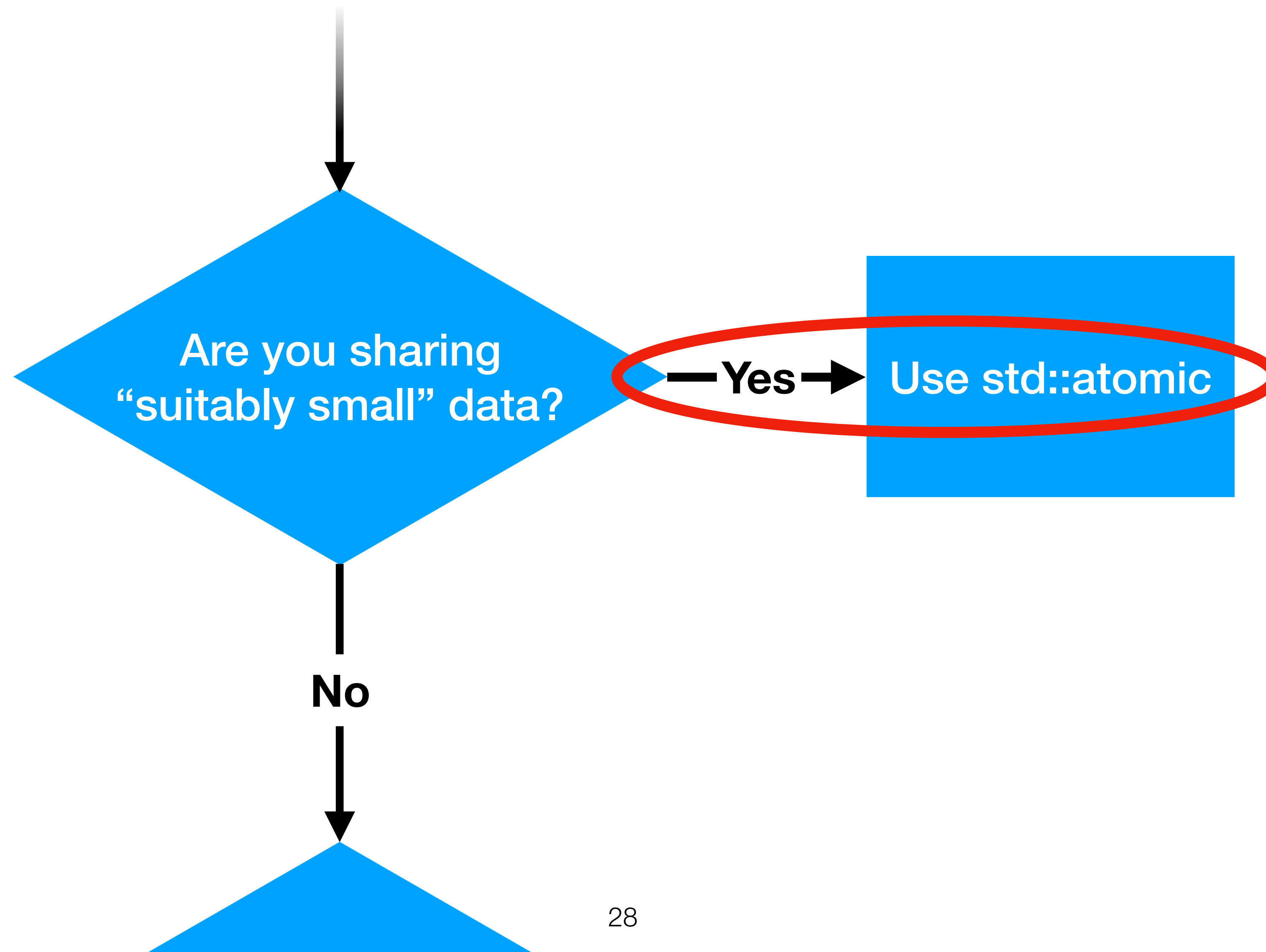




2

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How big is your data?



```
std::atomic<float> gain (1.0f);
```

```
void processSensorData (float* sensorInOut, int n)
{
    // do some dsp
    ...

    for (int i = 0; i < n; ++i)
        sensorInOut[i] *= gain.load();
}
```

```
// called on another thread
void setSensorGain (float newGain)
{
    gain.store (newGain);
}
```

Ensures loads and stores are synchronised

