D-Wave Sampling Optimization:
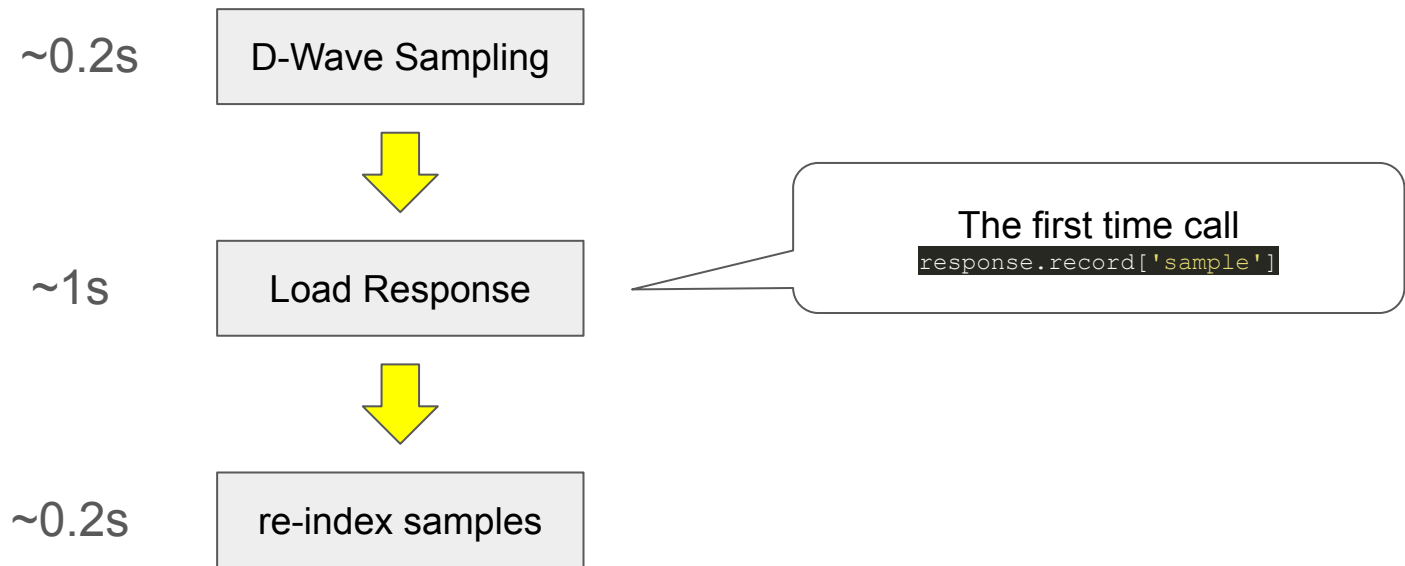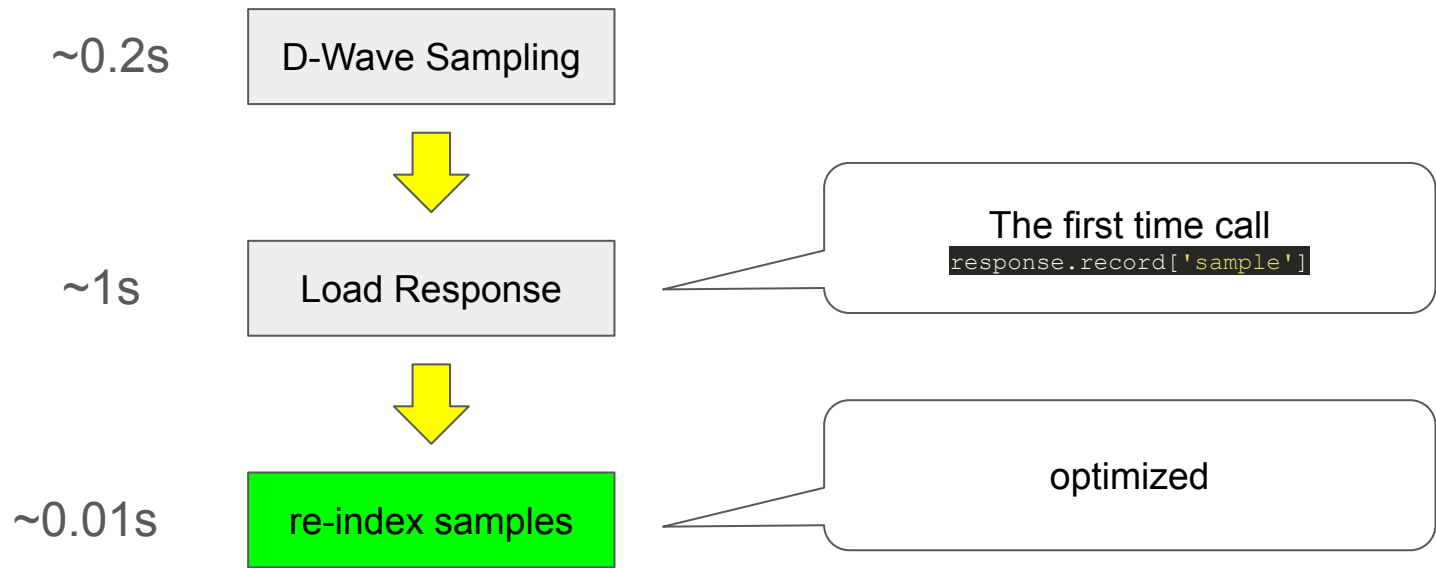
- Get D-Wave samples return with the time order — add 'raw' flag in sample_ising function.
    - We found a bug of D-Wave api command to call the response samples
    - After asking the D-Wave stuff, we make it work by using response.record('sample')
- Sampling Times Optimization
    - Batching Samples Times
        - Rewrite batch_dwave_samples to 20 times faster
    - Beta Training
        - D-Wave Energies can be scaled from D-Wave returns directly
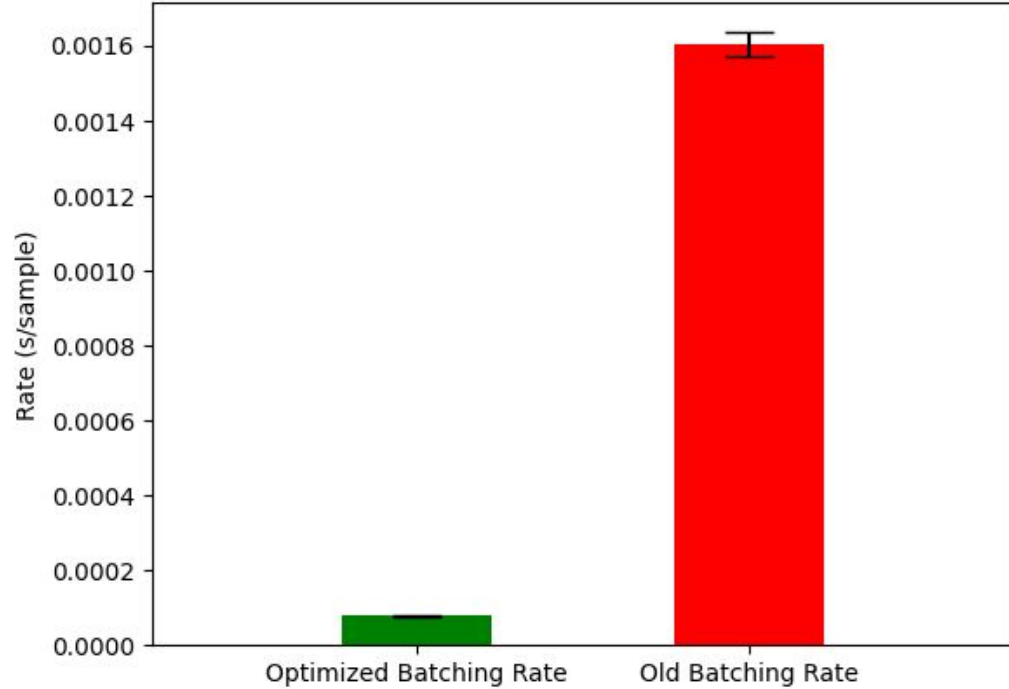
For 128 samples at 4x512

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Batching Samples Times

Mean Old Rate: 1.602 ms/sample

Mean Optimized Rate: 0.078 ms/sample

Beta Training Process

- Previously, the D-Wave-energy is computed with the exp energy function, given states, scaled weights and biases.

- Now we can just let the energies from D-Wave response * beta. Much more quicker.

Energy Distribution