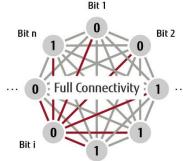
Fujitsu Digital Annealer

- We got a meeting with Fujitsu yesterday.
- Their machine is "Classical Annealing" with a digital circuit.
 - This is not a Quantum Computer.
 - Similar to "Hitachi CMOS annealing" (its seminar the next Tuesday)
 - It can do optimization using Ising model, which is similar to D-wave.
- Feature : http://www.fujitsu.com/global/digitalannealer/superiority/
 - Normal room temperature. (We don't need a cold matter...)
 - Small form factor (DAU(2nd gen) is built on a PCI-Express card-like board.)
 → Fujitsu started an on-premises service from the 22nd Feb, 2019.
 - Fully coupled 8192 (=2¹³)-"q"bits
 - For coefficients, we can use up to 64-bit $(=2^{64})$ gradations.
 - 64-bit for 4096 "q"bits
 - 32-bit for 8192 "q"bits







Prospect

- Using multi DAU(2nd gen) chips, we can use such a machine for problems requiring 100k bit's.
- Moreover, by using both multi DAU(2nd gen) and software, Fujitsu will provide a machinery to solve 1M bit problem until the end of March 2020.
- Fujitsu is developing the 3rd generation but no clear info.

