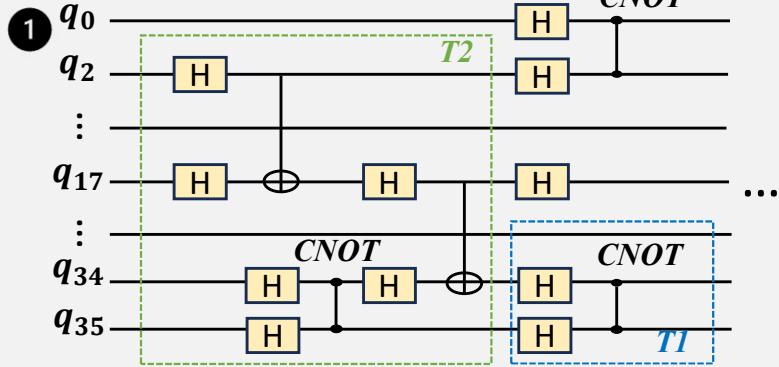


Gate-TaskScheduler



Task of gate sequence

T1	T2	...	T74	T75	...
...	T150	T151	T152	...	TN

T1: {q1, q2, ..., q35} Processing order
Ex) T1 {34, 35, ..., q35}

Qubit Index

0	1	2	...	17	18	...
26	27	...	33	34	35	36

T1: {34, 35}

T2: {2, 17, 34, 35}

AffectedIndicesBuilder

Size: 2
T1 34 35

Status of all qubits

00	01	...	11
----	----	-----	----

List of Affected Indices

Bit	Bitmask	G.Index
00	0	0
01	2^{34}	34359 ...
...		
11	$2^{34}+2^{35}$	17179 ...

Size: 4
T2 2 17

34 35

Status of all qubits

0000	0001	...	1111
0000	0001	...	1111

List of Affected Indices

Bit	Bitmask	G.Index
0000	0	0
0001	2^2	4
...		
1111	$2^2+2^{17}+2^{34}+2^{35}$	13743 ...

GeneratorStructure

StateSpace Structure

# of Qubits	Global Index	Node ID	Node offset	GPU ID	Global GPU ID	GPU offset
36	0	0	0	0	0	0
36	34359738368	0	0	3	3	25769804160
36	171799216388	3	103079216640	2	14	17179869440

StateSpace Structure

# of Qubits	Global Index	Node ID	Node offset	GPU ID	Global GPU ID	GPU offset
36	0	0	0	0	0	0
36	34359738368	0	0	3	3	25769804160
36	137438955268	3	103079216640	3	15	25769804160