OBMA for LPM

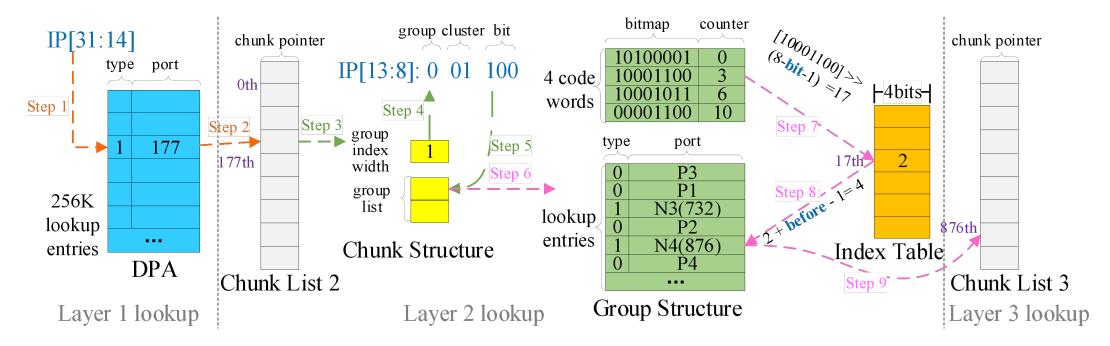
OBMA_B

与IWQoS版本相近:

Storage: Overlay bitmap, not use sparse chunk

Update: Adaptive grouping, 24-level optimization (50%)

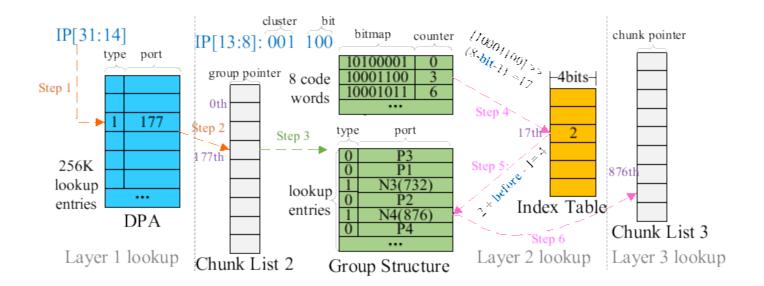
update meets)



OBMA_L

Compared with OBMA_B

Use one group to reduce the number of memory visits Fixed grouping [0-3-3] in layer 2, and [0-5-3] in layer three

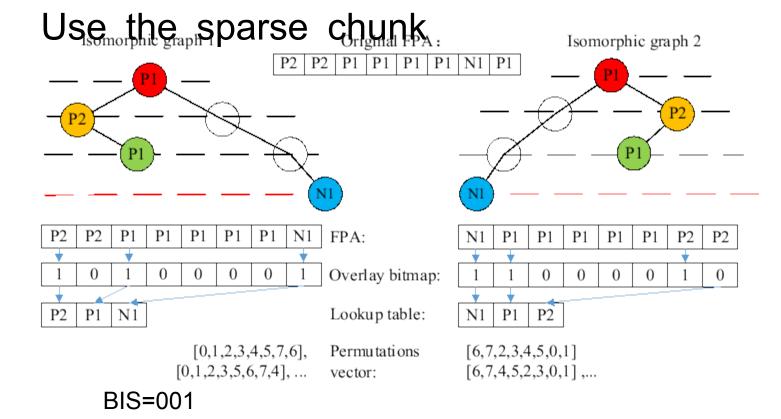


O	Bl	M	A	S

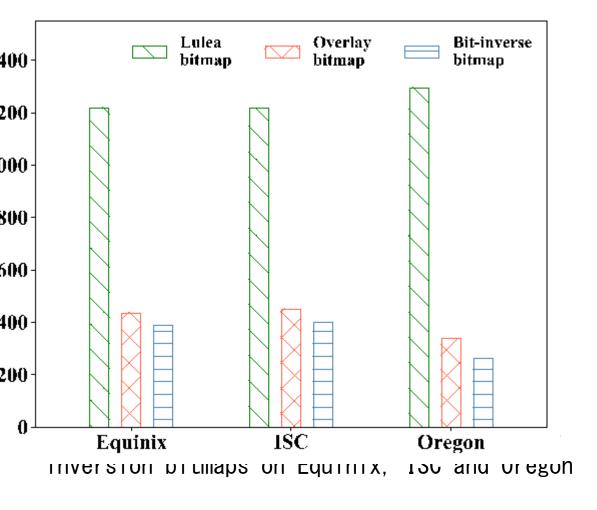
压缩 率 (%)	理论下界	M=2	M=3	M=4	M=5	M=6
n=8	12.5	50. 0	48. 97	51. 66	54. 79	57. 82
n=16	6.25	29.37	27.76	29.08	30.80	32.56

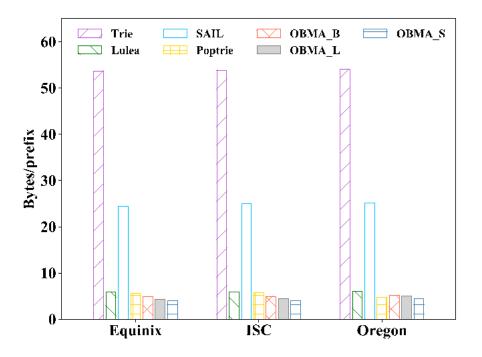
Compared with OBIMA_B

Use Bit Inversion Sequence to compress the overlay bitmap further

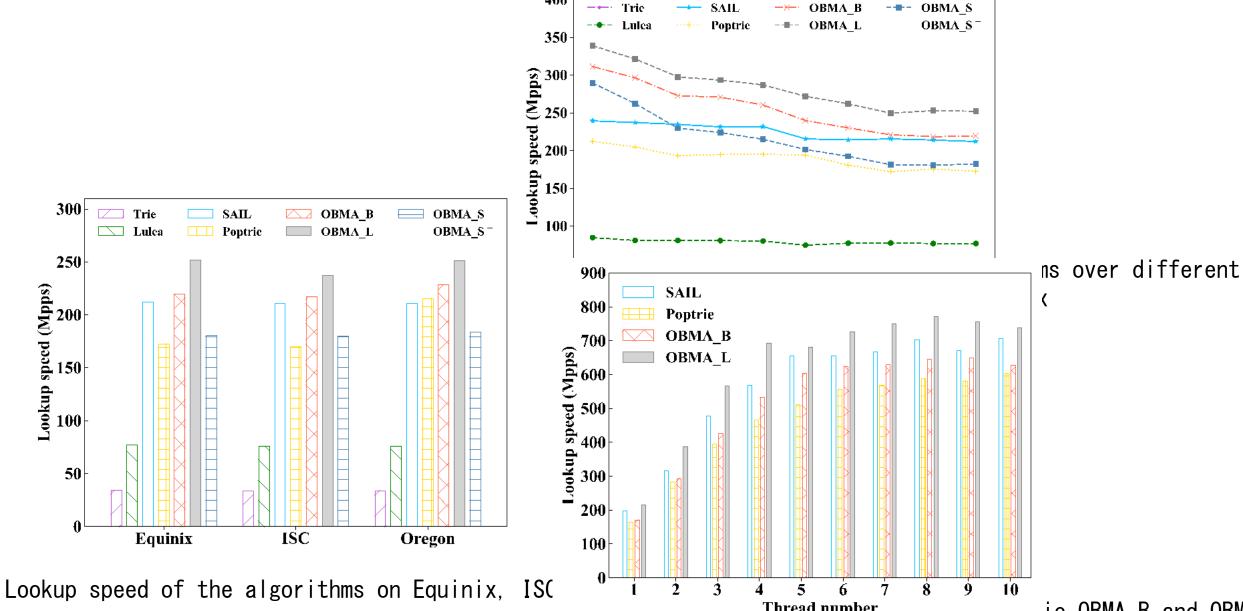


Evaluation

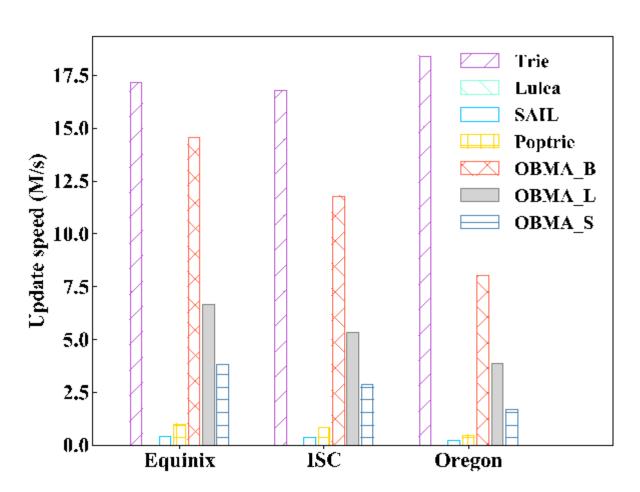




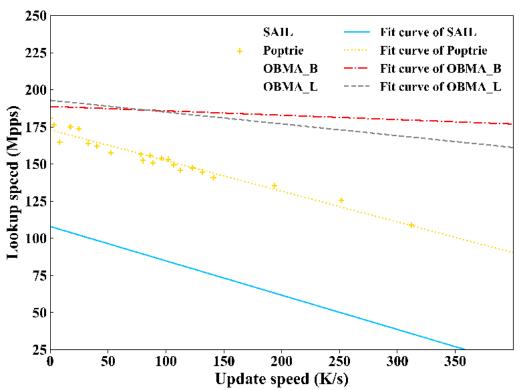
Storage efficiency of Trie, Lulea, SAIL, Poptrie, OBMA_B and OBMA_S on the tables



Thread number ie, OBMA_B and OBMA



Update speed of Trie, Lulea, SAIL, Poptrie and OBMA_B on Equinix, ISC and Oregon



Joint performance of lookup and update with single-threading on Equinix