

Traditional Hashing Methods



Images



H1

H2

H3

Hashing Functions



16 bits

	1	2	3	...	N
1	1	1	0		1
\vdots	\vdots	\vdots	\vdots	\vdots	\vdots
16	0	0	1		1

32 bits

	1	2	3	...	N
1	1	0	1		0
\vdots	\vdots	\vdots	\vdots	\vdots	\vdots
32	1	0	0		1

64 bits

	1	2	3	...	N
1	0	1	1		0
\vdots	\vdots	\vdots	\vdots	\vdots	\vdots
64	1	1	0		1

Binary Codes

HBS-RL



Images



H



	1	2	...	$c-1$	c
1	1	0	...	1	0
2	1	1	...	0	0
3	0	1	...	0	1
\vdots			...		
N	1	1	...	1	0

Original Database Codes



Bit Selection Agent



16 bits

	1	2	3	...	N
1	1	1	0		1
\vdots	\vdots	\vdots	\vdots	\vdots	\vdots
16	0	0	1		1

32 bits

	1	2	3	...	N
1	1	0	1		0
\vdots	\vdots	\vdots	\vdots	\vdots	\vdots
32	1	0	0		1

64 bits

	1	2	3	...	N
1	0	1	1		0
\vdots	\vdots	\vdots	\vdots	\vdots	\vdots
64	1	1	0		1

Binary Codes