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附錄 編碼表

以下的編碼表摘錄自視訊標準的文件。表 A-1 摘錄自 H.263 視訊標準的文件〔33〕；表 A-2 到表 A-6 摘錄自 H.264 視訊標準的文件〔13〕。

表 A-1 Run – Level 編碼表

LAST	RUN	LEVEL	Bits	Codeword	LAST	RUN	LEVEL	Bits	Codeword
0	0	1	3	10s	1	0	1	5	0111s
0	0	2	5	1111s	1	0	2	10	000011001s
0	0	3	7	010101s	1	0	3	12	00000000101s
0	0	4	8	0010111s	1	1	1	7	001111s
0	0	5	9	00011111s	1	1	2	12	00000000100s
0	0	6	10	000100101s	1	2	1	7	001110s
0	0	7	10	000100100s	1	3	1	7	001101s
0	0	8	11	0000100001s	1	4	1	7	001100s
0	0	9	11	0000100000s	1	5	1	8	0010011s
0	0	10	12	00000000111s	1	6	1	8	0010010s
0	0	11	12	00000000110s	1	7	1	8	0010001s
0	0	12	12	0000010000s	1	8	1	8	0010000s
0	1	1	4	110s	1	9	1	9	00011010s
0	1	2	7	010100s	1	10	1	9	00011001s
0	1	3	9	00011110s	1	11	1	9	00011000s
0	1	4	11	0000001111s	1	12	1	9	00010111s
0	1	5	12	00000100001s	1	13	1	9	00010110s
0	1	6	13	000001010000s	1	14	1	9	00010101s
0	2	1	5	1110s	1	15	1	9	00010100s
0	2	2	9	00011110s	1	16	1	9	00010011s
0	2	3	11	0000001111s	1	17	1	10	000011000s
0	2	4	13	000001010001s	1	18	1	10	000010111s
0	3	1	6	01101s	1	19	1	10	000010101s
0	3	2	10	000100011s	1	20	1	10	000010101s
0	3	3	11	0001001101s	1	21	1	10	000010100s
0	4	1	6	01100s	1	22	1	10	000010011s
0	4	2	10	000100010s	1	23	1	10	000010010s
0	4	3	13	000001010010s	1	24	1	10	000010001s
0	5	1	6	01011s	1	25	1	11	0000000111s
0	5	2	11	0000001100s	1	26	1	11	0000000110s
0	5	3	13	000001010011s	1	27	1	11	0000000101s

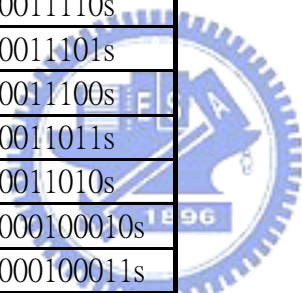
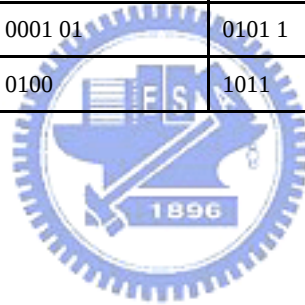
0	6	1	7	010011s	1	28	1	11	0000000100s
0	6	2	11	0000001011s	1	29	1	12	00000100100s
0	6	3	13	000001010100s	1	30	1	12	00000100101s
0	7	1	7	010010s	1	31	1	12	00000100110s
0	7	2	11	0000001010s	1	32	1	12	00000100111s
0	8	1	7	010001s	1	33	1	13	000001011000s
0	8	2	11	0000001001s	1	34	1	13	000001011001s
0	9	1	7	010000s	1	35	1	13	000001011010s
0	9	2	11	0000001000s	1	36	1	13	000001011011s
0	10	1	8	0010110s	1	37	1	13	000001011100s
0	10	2	13	000001010101s	1	38	1	13	000001011101s
0	11	1	8	0010101s	1	39	1	13	000001011110s
0	12	1	8	0010100s	1	40	1	13	000001011111s
0	13	1	9	00011100s					
0	14	1	9	00011011s					
0	15	1	10	000100001s					
0	16	1	10	000100000s					
0	17	1	10	000011111s					
0	18	1	10	000011110s					
0	19	1	10	000011101s					
0	20	1	10	000011100s					
0	21	1	10	000011011s					
0	22	1	10	000011010s					
0	23	1	12	00000100010s					
0	24	1	12	00000100011s					
0	25	1	13	000001010110s					
0	26	1	13	000001010111s					

表 A-2 Total_coeff 與 T1s 編碼表

ls	total_coeff	0 ≤ nC < 2	2 ≤ nC < 4	4 ≤ nC < 8	8 ≤ nC	nC = -1
0	0	1	11	1111	0000 11	01
0	1	0001 01	0010 11	0011 11	0000 00	0001 11
1	1	01	10	1110	0000 01	1
0	2	0000 0111	0001 11	0010 11	0001 00	0001 00
1	2	0001 00	0011 1	0111 1	0001 01	0001 10
2	2	001	011	1101	0001 10	001
0	3	0000 0011 1	0000 111	0010 00	0010 00	0000 11
1	3	0000 0110	0010 10	0110 0	0010 01	0000 011
2	3	0000 101	0010 01	0111 0	0010 10	0000 010
3	3	0001 1	0101	1100	0010 11	0001 01
0	4	0000 0001 11	0000 0111	0001 111	0011 00	0000 10
1	4	0000 0011 0	0001 10	0101 0	0011 01	0000 0011
2	4	0000 0101	0001 01	0101 1	0011 10	0000 0010
3	4	0000 11	0100	1011	0011 11	0000 000



1	5	0000 0001 10	0000 110	0100 0	0100 01	-
2	5	0000 0010 1	0000 101	0100 1	0100 10	-
3	5	0000 100	0011 0	1010	0100 11	-
0	6	0000 0000 0111 1	0000 0011 1	0001 001	0101 00	-
1	6	0000 0000 110	0000 0110	0011 10	0101 01	-
2	6	0000 0001 01	0000 0101	0011 01	0101 10	-
3	6	0000 0100	0010 00	1001	0101 11	-
0	7	0000 0000 0101 1	0000 0001 111	0001 000	0110 00	-
1	7	0000 0000 0111 0	0000 0011 0	0010 10	0110 01	-
2	7	0000 0000 101	0000 0010 1	0010 01	0110 10	-
3	7	0000 0010 0	0001 00	1000	0110 11	-
0	8	0000 0000 0100 0	0000 0001 011	0000 1111	0111 00	-
1	8	0000 0000 0101 0	0000 0001 110	0001 110	0111 01	-
2	8	0000 0000 0110 1	0000 0001 101	0001 101	0111 10	-
3	8	0000 0001 00	0000 100	0110 1	0111 11	-
0	9	0000 0000 0011 11	0000 0000 1111	0000 1011	1000 00	-
1	9	0000 0000 0011 10	0000 0001 010	0000 1110	1000 01	-
2	9	0000 0000 0100 1	0000 0001 001	0001 010	1000 10	-
3	9	0000 0000 100	0000 0010 0	0011 00	1000 11	-
0	10	0000 0000 0010 11	0000 0000 1011	0000 0111 1	1001 00	-
1	10	0000 0000 0010 10	0000 0000 1110	0000 1010	1001 01	-
2	10	0000 0000 0011 01	0000 0000 1101	0000 1101	1001 10	-
3	10	0000 0000 0110 0	0000 0001 100	0001 100	1001 11	-
0	11	0000 0000 0001 111	0000 0000 1000	0000 0101 1	1010 00	-
1	11	0000 0000 0001 110	0000 0000 1010	0000 0111 0	1010 01	-
2	11	0000 0000 0010 01	0000 0000 1001	0000 1001	1010 10	-
3	11	0000 0000 0011 00	0000 0001 000	0000 1100	1010 11	-
0	12	0000 0000 0001 011	0000 0000 0111 1	0000 0100 0	1011 00	-
1	12	0000 0000 0001 010	0000 0000 0111 0	0000 0101 0	1011 01	-
2	12	0000 0000 0001 101	0000 0000 0110 1	0000 0110 1	1011 10	-
3	12	0000 0000 0010 00	0000 0000 1100	0000 1000	1011 11	-
0	13	0000 0000 0000 1111	0000 0000 0101 1	0000 0011 01	1100 00	-
1	13	0000 0000 0000 001	0000 0000 0101 0	0000 0011 1	1100 01	-
2	13	0000 0000 0001 001	0000 0000 0100 1	0000 0100 1	1100 10	-

3	13	0000 0000 0001 100	0000 0000 0110 0	0000 0110 0	1100 11	-
0	14	0000 0000 0000 1011	0000 0000 0011 1	0000 0010 01	1101 00	-
1	14	0000 0000 0000 1110	0000 0000 0010 11	0000 0011 00	1101 01	-
2	14	0000 0000 0000 1101	0000 0000 0011 0	0000 0010 11	1101 10	-
3	14	0000 0000 0001 000	0000 0000 0100 0	0000 0010 10	1101 11	-
0	15	0000 0000 0000 0111	0000 0000 0010 01	0000 0001 01	1110 00	-
1	15	0000 0000 0000 1010	0000 0000 0010 00	0000 0010 00	1110 01	-
2	15	0000 0000 0000 1001	0000 0000 0010 10	0000 0001 11	1110 10	-
3	15	0000 0000 0000 1100	0000 0000 0000 1	0000 0001 10	1110 11	-
0	16	0000 0000 0000 0100	0000 0000 0001 11	0000 0000 01	1111 00	-
1	16	0000 0000 0000 0110	0000 0000 0001 10	0000 0001 00	1111 01	-
2	16	0000 0000 0000 0101	0000 0000 0001 01	0000 0000 11	1111 10	-
3	16	0000 0000 0000 1000	0000 0000 0001 00	0000 0000 10	1111 11	-

表 A-3 levelPrefix 編碼表

levelPrefix	Codeword
0	1
1	01
2	001
3	0001
4	0000 1
5	0000 01
6	0000 001
7	0000 0001
8	0000 0000 1
9	0000 0000 01
10	0000 0000 001
11	0000 0000 0001
12	0000 0000 0000 1
13	0000 0000 0000 01
14	0000 0000 0000 001
15	0000 0000 0000 0001

表 A-4 total_zeros 編碼表(total_coeff 從 1 到 7)

total_zeros()	total_coeff()						
	1	2	3	4	5	6	7
0	1	111	0101	0001 1	0101	0000 01	0000 01
1	011	110	111	111	0100	0000 1	0000 1
2	010	101	110	0101	0011	111	101
3	0011	100	101	0100	111	110	100
4	0010	011	0100	110	110	101	011
5	0001 1	0101	0011	101	101	100	11
6	0001 0	0100	100	100	100	011	010
7	0000 11	0011	011	0011	011	010	0001
8	0000 10	0010	0010	011	0010	0001	001
9	0000 011	0001 1	0001 1	0010	0000 1	001	0000 00
10	0000 010	0001 0	0001 0	0001 0	0001	0000 00	
11	0000 0011	0000 11	0000 01	0000 1	0000 0		
12	0000 0010	0000 10	0000 1	0000 0			
13	0000 0001 1	0000 01	0000 00				
14	0000 0001 0	0000 00					
15	0000 0000 1						

表 A-5 total_zeros 編碼表(total_coeff 從 8 到 15)

total_zeros()	total_coeff()							
	8	9	10	11	12	13	14	15
0	0000 01	0000 01	0000 1	0000	0000	000	00	0
1	0001	0000 00	0000 0	0001	0001	001	01	1
2	0000 1	0001	001	001	01	1	1	
3	011	11	11	010	1	01		
4	11	10	10	1	001			
5	10	001	01	011				
6	010	01	0001					
7	001	0000 1						
8	0000 00							

表A-6 run_before 與 zerosLeft 編碼表

run_before	zerosLeft						
	1	2	3	4	5	6	> 6
0	1	1	11	11	11	11	111
1	0	01	10	10	10	000	110
2	-	00	01	01	011	001	101
3	-	-	00	001	010	011	100
4	-	-	-	000	001	010	011
5	-	-	-	-	000	101	010
6	-	-	-	-	-	100	001
7	-	-	-	-	-	-	0001
8	-	-	-	-	-	-	00001
9	-	-	-	-	-	-	000001
10	-	-	-	-	-	-	0000001
11	-	-	-	-	-	-	00000001
12	-	-	-	-	-	-	000000001
13	-	-	-	-	-	-	0000000001
14	-	-	-	-	-	-	00000000001