Digital System Design Project 2 – Exact Boolean Minimization

B11115032 陳尚澤

Case 1:

pla1.pla:

.i 4

.o 1

.ilb a b c d

.ob f

.p 4

0101 1

1101 1

0111 1

1111 -

.e

|  |  |
| --- | --- |
| out1.pla  .i 4  .o 1  .ilb a b c d  .ob f  .p 1  -1-1 1  .e | cout  Total number of terms: 1  Total number of literals: 2 |

Case 2:

Pla2.pla:

.i 5

.o 1

.ilb a b c d e

.ob f

.p 6

000-- -

001-- 1

011-- 1

100-- -

101-- 1

111-- 1

.e

|  |  |
| --- | --- |
| Out2.pla  .i 5  .o 1  .ilb a b c d e  .ob f  .p 1  --1-- 1 | cout  Total number of terms: 1  Total number of literals: 1 |

Case 3:

Pla3.pla:

.i 6

.o 1

.ilb a b c d e g

.ob f

.p 64

000000 0

000001 1

000010 -

000011 0

000100 1

000101 -

000110 0

000111 1

001000 -

001001 0

001010 1

001011 -

001100 0

001101 1

001110 -

001111 0

010000 1

010001 -

010010 0

010011 1

010100 -

010101 0

010110 1

010111 -

011000 0

011001 1

011010 -

011011 0

011100 1

011101 -

011110 0

011111 1

100000 -

100001 0

100010 1

100011 -

100100 0

100101 1

100110 -

100111 0

101000 1

101001 -

101010 0

101011 1

101100 -

101101 0

101110 1

101111 -

110000 0

110001 1

110010 -

110011 0

110100 1

110101 -

110110 0

110111 1

111000 -

111001 0

111010 1

111011 -

111100 0

111101 1

111110 -

111111 0

.e

|  |  |
| --- | --- |
| Out3.pla  .i 6  .o 1  .ilb a b c d e g  .ob f  .p 21  000-01 1  00010- 1  0001-1 1  00-010 1  00-101 1  01000- 1  0100-1 1  0101-0 1  01-001 1  01-100 1  01-111 1  -00010 1  -00101 1  -01000 1  -01011 1  -01110 1  -10001 1  -10100 1  -10111 1  -11010 1  -11101 1  .e | cout  Total number of terms: 21  Total number of literals: 105 |