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汇编

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1. (1) ①降幂法 $10000-2^{13}=10000-8192=1808$ $(a_{13}=1)$

$a_{12}=0$, $a_{11}=0$.

$1808-2^{10}=1808-1024=784$ $(a_{10}=1)$

$784-2^9=784-512=272$ $(a_9=1)$

$272-2^8=272-256=16$ $(a_8=1)$

$a_7=a_6=a_5=0$

$16-2^4=16-16=0$ $(a_4=1)$

$a_3=a_2=a_1=a_0=0$

$\therefore (10000)_D=(1\,0011\,1000\,10000)_B$

② 除法

$10000/2=5000$	$(a_0=0)$	$4/2=2$	$(a_{11}=0)$
$5000/2=2500$	$(a_1=0)$	$2/2=1$	$(a_{12}=0)$
$2500/2=1250$	$(a_2=0)$	$1/2=0$	$(a_{13}=1)$
$1250/2=625$	$(a_3=0)$	$\therefore (10000)_D$	
$625/2=312$	$(a_4=1)$	$=(10\,0111\,0001\,0000)_B$	
$312/2=156$	$(a_5=0)$		
$156/2=78$	$(a_6=0)$		
$78/2=39$	$(a_7=0)$		
$39/2=19$	$(a_8=1)$		
$19/2=9$	$(a_9=1)$		
$9/2=4$	$(a_{10}=1)$		

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(2) ①降幂法

$4095 - 2^{11} = 4095 - 2048 = 2047$ $(a_{11}=1)$

$2047 - 2^{10} = 2047 - 1024 = 1023$ $(a_{10}=1)$

$1023 - 2^{9} = 1023 - 512 = 511$ $(a_9=1)$

$511 - 2^{8} = 511 - 256 = 255$ $(a_8=1)$

$255 - 2^{7} = 255 - 128 = 127$ $(a_7=1)$

$127 - 2^{6} = 127 - 64 = 63$ $(a_6=1)$

$63 - 2^{5} = 63 - 32 = 31$ $(a_5=1)$

$31 - 2^{4} = 31 - 16 = 15$ $(a_4=1)$

$15 - 2^{3} = 15 - 8 = 7$ $(a_3=1)$

$7 - 2^{2} = 7 - 4 = 3$ $(a_2=1)$

$3 - 2^{1} = 3 - 2 = 1$ $(a_1=1)$

$1 - 2^{0} = 1 - 1 = 0$ $(a_0=1)$

$\therefore (4095)_D = (1111\ 1111\ 1111)_B$

②除法

$4095/2 = 2047$ $(a_0=1)$ $63/2 = 31$ $(a_6=1)$

$2047/2 = 1023$ $(a_1=1)$ $31/2 = 15$ $(a_7=1)$

$1023/2 = 511$ $(a_2=1)$ $15/2 = 7$ $(a_8=1)$

$511/2 = 255$ $(a_3=1)$ $7/2 = 3$ $(a_9=1)$

$255/2 = 127$ $(a_4=1)$ $3/2 = 1$ $(a_{10}=1)$

$127/2 = 63$ $(a_5=1)$ $1/2 = 0$ $(a_{11}=1)$

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∴ $(4095)_D = (1111\ 1111\ 1111)_B$

(实际上, $4095 = 2^{12} - 1 = \sum_{i=0}^{11} 2^i$, 可得 $a_0, a_1, \cdots a_{11} = 1$)

T2.

...	
E5 H	000B0 H
1E H	000B1 H
00 H	000B2 H
3C H	000B3 H
2A H	000B4 H
...	

T3. 段地址左移4位加上偏移地址形成物理地址. 即

16d × 段地址 + 偏移地址 = 物理地址

① 段地址和偏移地址为 3017:000A 时, 物理地址为 3017AH

② 段地址和偏移地址为 3015:002A 时, 物理地址为 3017AH

③ 段地址和偏移地址为 3010:007A 时, 物理地址为 3017AH

物理地址唯一, 但对应的段地址和偏移地址不唯一。