

CDAC3331 practice Quiz 1b.

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1. The diagrams below shows the contents of some data segments of a 68000 memory map.

- What is the longword stored at location \$D03474? **55667788**
- What is the word stored at location \$D03476? **7788**
- What is the byte stored at location \$D03471? **22**
- What is the word stored at location \$A62B3A? **BACA**
- What is the byte stored at location \$A62B39? **AA**
- What is the longword stored at location \$A62B38? **9AAABACA**

\$D03470	11
\$D03471	22
\$D03472	33
\$D03473	44
\$D03474	55
\$D03475	66
\$D03476	77
\$D03477	88
\$D03478	99
\$D03479	AA

\$A62B30	1A	2A
\$A62B32	3A	4A
\$A62B34	5A	6A
\$A62B36	7A	8A
\$A62B38	9A	AA
\$A62B3A	BA	CA
\$A62B3C	DA	EA
\$A62B3E	FA	0B

2. The diagram below shows a 68000 memory system consisting of 2 consecutive (no unused space) RAM chips and 2 consecutive ROM chips. The starting Binary and Hex addresses of the first (lowest) chip in each block (pair of consecutive chips) are shown.

Give the starting address of the second chip in each pair – both in Binary and in Hex, and the ending address of each of the 4 memory chips – in Hex only.

Starting Address in Binary		Start	End	
1010 1010 0010 0000 0000 0000	8K = 2 <sup>13</sup>	\$AA2000	\$AA3FFF	0000 = 0
1010 1010 0000 0000 0000 0000	8KB ROM	\$AA0000	\$AA1FFF	0001 = 1
	8KB ROM			0010 = 2
				0100 = 4
				1000 = 8
	256K = 2 <sup>18</sup>	\$080000		2 <sup>0</sup> = 1
0000 0100 0000 0000 0000 0000	256KB RAM	\$040000	\$07FFFF	2 <sup>5</sup> = 32
0000 0000 0000 0000 0000 0000	256KB RAM	\$000000	\$03FFFF	2 <sup>10</sup> = 1K
				2 <sup>15</sup> = 32K
				2 <sup>20</sup> = 1M
				2 <sup>25</sup> = 32M
				2 <sup>30</sup> = 1G